

data_mining

June 7, 2018

```
In [46]: %matplotlib inline
import numpy as np
import matplotlib.pyplot as plt

In [2]: import sys

In [3]: sys.path.insert(0, '/golem/database')

In [4]: import logging

In [5]: rootLog = logging.getLogger()
rootLog.setLevel(logging.INFO)

In [6]: from multiprocessing import Process
from multiprocessing.pool import Pool

In [7]: import gc

In [8]: def process_shot(shot, remove_offset=True):
    from pygolem_lite import Shot
    import hxr_integral
    if not isinstance(shot, Shot):
        shot = Shot(shot)
    return [shot.shot_num, hxr_integral.integrate_hxr(shot, remove_offset),
            shot['toroidal_field_mean'], shot['ub'],
            shot['plasma_current_mean'], shot['ucd'], shot['tcd'],
            shot['safety_factor_mean'],
            shot['working_gas'], shot['pressure'],
            shot['plasma_life'],
            ]

In [77]: def process_runner(shot):
    gc.collect()
    print(shot)
    try:
        return process_shot(shot)
    except:
        return None
```

Due to bug in `pygolem_lite` it is necessary to load the library in a subprocess

```
In [10]: pool = Pool(4, maxtasksperchild=1)
```

```
In [ ]:
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```
In [76]: shots = range(27354, 26000, -1)
```

```
In [78]: res = [pool.apply(process_runner, args=(i,)) for i in shots]
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27350
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hxr
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in divide
  ret, rcount, out=ret, casting='unsafe', subok=False)
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27330

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27320

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27319

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27312

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  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27311

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27310

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27309

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27308

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27307

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27306

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27305

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27304

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27303

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27302

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27301

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27300

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27299

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27298

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27297

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27296

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27295

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
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27294

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
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  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27293

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
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  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27292

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
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```

27291

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
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```

27290

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
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  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

27289

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27288
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
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```

27287
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
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```

27286
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
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```

27285
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
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```

27284
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
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```

27283
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
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```

27282
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
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27281
hxr

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27280
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
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```

27279
hxr


```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
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```

27278
hxr

```
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27277
hxr

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27276
hxr

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27275
hxr

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/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
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27274
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
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/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
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27273

hxr

```
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27272

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
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27271

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
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27270

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
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27269

hxr

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/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
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27268

hxr

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27267

hxr

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27266

hxr

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27265

hxr

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27264
hxr

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27263
hxr

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27262
hxr

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27261
hxr

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27260
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
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27259
hxr

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27258
hxr

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27257
hxr

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27256
hxr

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27255
hxr

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27254
hxr

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27253
hxr

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27252
hxr

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27251
hxr

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27250
hxr

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27249

hxr

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27248

hxr

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27247

hxr

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27246
hxr

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27245
hxr

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27244
hxr

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27243
hxr

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27242
hxr

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27241
hxr

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27240
hxr

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27239
hxr

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27238
hxr

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27237
hxr

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/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
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/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27236
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27235
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27234
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27233
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27232
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27231
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27230
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27229
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27228
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27227
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27226
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27225
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27224

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27223

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27222

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27221

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27220

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27219

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27218

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27217

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27216

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
```

```
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
ret, rcount, out=ret, casting='unsafe', subok=False)
```

27215
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27214
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27213
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27212
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
warnings.warn("Mean of empty slice.", RuntimeWarning)
```

```
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27211

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']!=None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27210

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']!=None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27209

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']!=None else data_0['data_err']} )
```

27208

hxr


```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27207
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27206
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27205
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27204
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27203
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27202

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27201

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27200

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
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27199

hxr

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27198

hxr

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27197

hxr

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27196

hxr

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27195

hxr

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27194

hxr

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27193

hxr

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27192

hxr

```
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27191
hxr

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27190
hxr

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27189
hxr

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27188
hxr

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27187
hxr

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27186
hxr

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27185
hxr

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27184
hxr

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27183
hxr

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27182
hxr

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27181

hxr

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27180

hxr

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27179

hxr

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27178

hxr

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27177

hxr

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27176

hxr

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27175

hxr

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27174

hxr

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27173

hxr

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27172
hxr

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27171
hxr

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27170
hxr

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  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err'])
```

27169

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27168

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27167

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27166

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27165

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27164

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27163

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27162

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27161

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27160

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27159

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27158

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27157

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27156

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27155

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
```

```
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
ret, rcount, out=ret, casting='unsafe', subok=False)
```

27154
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
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offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
ret, rcount, out=ret, casting='unsafe', subok=False)
```

27153
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
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offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
ret, rcount, out=ret, casting='unsafe', subok=False)
```

27152
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
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hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
```

```
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27151
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27150
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27149
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
```

```
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
ret, rcount, out=ret, casting='unsafe', subok=False)
```

27148

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
ret, rcount, out=ret, casting='unsafe', subok=False)
```

27147

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
ret, rcount, out=ret, casting='unsafe', subok=False)
```

27146

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
warnings.warn("Mean of empty slice.", RuntimeWarning)
```



```
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27145

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
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hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27144

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
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  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27143

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
```

```
ret, rcount, out=ret, casting='unsafe', subok=False)
```

27142

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']})
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
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  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27141

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']})
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in less
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27140

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']})
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in less
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27139

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in less
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27138

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

27137

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

27136

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

27135

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in divide
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27134

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

27133

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

27132

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

27131

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

27130

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27129

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27128

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27127

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27126

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27125

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27124

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27123

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27122

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27121

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27120

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27119

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27118

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27117

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27116

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27115

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27114

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27113

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27112

hxr


```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27111
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27110
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27109
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
```

```
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27108

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27107

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27106

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

```
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarnin
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarnin
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27105
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `Nor
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']=
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `Nor
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarnin
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarnin
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27104
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `Nor
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']=
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `Nor
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarnin
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarnin
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27103
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `Nor
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']=
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `Nor
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
```

```
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27102
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27101
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27100
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
```

```
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
ret, rcount, out=ret, casting='unsafe', subok=False)
```

27099

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bools
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bools
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27098

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bools
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bools
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
ret, rcount, out=ret, casting='unsafe', subok=False)
```

27097

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bools
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bools
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
ret, rcount, out=ret, casting='unsafe', subok=False)
```

27096

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in divide
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27095

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

27094

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

27093

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

27092

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27091

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
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hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in divide
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27090

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27089

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27088

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27087

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27086

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27085

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27084

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27083

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```


27082

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27081

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27080

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27079

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27078

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27077

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27076

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27075

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27074

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27073

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27072

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27071

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27070

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27069

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

```
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarnin
    warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarnin
    ret, rcount, out=ret, casting='unsafe', subok=False)
```

27068

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `Nor
    args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']=
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `Nor
    'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
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    warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarnin
    ret, rcount, out=ret, casting='unsafe', subok=False)
```

27067

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `Nor
    args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']=
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `Nor
    'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarnin
    warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarnin
    ret, rcount, out=ret, casting='unsafe', subok=False)
```

27066

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `Nor
    args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']=
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `Nor
    'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
```

```
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  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27065

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err'])
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27064

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err'])
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27063

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err'])
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
```

```
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
ret, rcount, out=ret, casting='unsafe', subok=False)
```

27062
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']!=None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
ret, rcount, out=ret, casting='unsafe', subok=False)
```

27061
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']!=None else data_0['data_err']
```

27060
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']!=None else data_0['data_err']
```

27059
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
```

```
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27058
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27057
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27056
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

```
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
```

27055

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27054

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27053

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27052

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27051

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```


27050

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27049

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27048

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27047

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27046

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
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  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27045

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27044

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27043

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27042

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

27041

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27040

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

27039

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27038

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in divide
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27037

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27036

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27035

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27034

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27033

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27032

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27031

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27030

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27029

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27028

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27027

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27026

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27025

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
```

```
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
ret, rcount, out=ret, casting='unsafe', subok=False)
```

27024
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']!=None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
ret, rcount, out=ret, casting='unsafe', subok=False)
```

27023
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']!=None else data_0['data_err']
```

27022
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']!=None else data_0['data_err']
```

27021
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
```

```
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27020

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27019

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27018

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27017

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27016

hxr


```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27015
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27014
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27013
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27012
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27011
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27010
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27009
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27008
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27007
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27006
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27005
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27004
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27003
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27002
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

27001
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

27000

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26999

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26998

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26997

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26996
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26995
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26994
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26993
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26992
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26991

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26990

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26989

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26988

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26987

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26986

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26985

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26984

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26983

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26982

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26981

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26980

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26979

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
```



```
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26978
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bools
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bools
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26977
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bools
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bools
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26976
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bools
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bools
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26975
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bools
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
```

```
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

26974

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

26973

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

26972

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

26971

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26970

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26969

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26968

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26967

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26966

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26965

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26964

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26963

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26962

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26961

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26960

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26959

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26958

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26957

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26956

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26955

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26954

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26953

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26952

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in less
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26951

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in divide
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26950

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26949

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26948

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26947

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26946
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26945
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26944
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26943
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26942
hxr


```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26941

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26940

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26939

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26938

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26937

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in divide
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26936

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in divide
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26935

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26934

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26933

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26932

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26931

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26930

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26929

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26928

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26927

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26926

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26925

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26924

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26923

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26922

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26921

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26920

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26919

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26918

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26917

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26916

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26915

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26914

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26913

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26912

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26911

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in less
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26910

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26909

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26908

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26907

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26906

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26905

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```


26904

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26903

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26902

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26901

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26900

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26899

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26898

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26897

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26896

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26895

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26894

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26893

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26892

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26891

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26890

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
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26889

hxr

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26888

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26887

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26886

hxr

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26885

hxr

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26884

hxr

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26883

hxr

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26882

hxr

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26881

hxr

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26880

hxr

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26879

hxr

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  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26878

hxr

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26877

hxr

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26876

hxr

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26875

hxr

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26874

hxr

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26873

hxr

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26872

hxr

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26871

hxr

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26870

hxr

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26869

hxr

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26868

hxr

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26867

hxr

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26866

hxr

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26865

hxr

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26864

hxr

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26863

hxr

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26862

hxr

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26861

hxr

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26860

hxr

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26859

hxr

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26858

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26857

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26856

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26855

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26854

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26853

hxr

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26852

hxr

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26851

hxr

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26850

hxr

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26849

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26848

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26847

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in less
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26846

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26845
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26844
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26843
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26842
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26841
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26840
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26839
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26838
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26837
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26836
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26835
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26834
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26833
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26832
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26831
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26830

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in divide
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26829

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26828

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26827

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```


26826

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26825

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26824

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26823

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26822

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26821

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26820

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26819

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26818

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26817

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26816

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26815

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26814

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26813

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26812

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26811

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in divide
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26810

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26809

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
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26808

hxr

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26807

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26806
hxr

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26805
hxr

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26804
hxr

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26803
hxr

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26802

hxr

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26801

hxr

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26800

hxr

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26799

hxr

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26798

hxr

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26797

hxr

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26796

hxr

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26795

hxr

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26794

hxr

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26793

hxr

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26792

hxr

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26790

hxr

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26789

hxr

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26788

hxr

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26787

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26786

hxr

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26785

hxr

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26784

hxr

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26783

hxr

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26782

hxr

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26781

hxr

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26780

hxr

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26779

hxr

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26778

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26777

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26776

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26775

hxr

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26774

hxr

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  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26773

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26772

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26771

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26770

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in divide
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26769

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in divide
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26768

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26767

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26766

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26765

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
```

```
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

26764

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

26763

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

26762

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

26761

hxr

26760

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

26759

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26758
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26757
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26756
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
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  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26755
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26754
hxr


```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26753
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26752
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26751
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26750
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26749
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26748

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26747

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26746

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in less
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26745

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26744

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26743

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26742

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26741

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26740

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26739

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err'] )
```

26738

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err'] )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26737

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err'] )
```

26736

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err'] )
```

26735

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26734
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26733
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26732
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26731
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26730
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26729
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26728
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26727
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26726
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26725
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26724

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26723

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26722

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26721

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26720

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26719

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26718

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26717

hxr


```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26716
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26715
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26714
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26713
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26712
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26711
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26710
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26709
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26708
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26707
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26706
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26705
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26704
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26703
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26702
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26701
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26700
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26699
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26698
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26697
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26696
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26695
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26694
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26693
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26692
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan  
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )  
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan  
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26691
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan  
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )  
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan  
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26690
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan  
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )  
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan  
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26689
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan  
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )  
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan  
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26688
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan  
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )  
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan  
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26687
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26686
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26685
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26684
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26683
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
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  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26682
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
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  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26681
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26680
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26679
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26678
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan
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/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26677
hxr


```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26676

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26675

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26674

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
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/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26673

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26672

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26671

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
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/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26670

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26669

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26668

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26667

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26666

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26665

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26664

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26663

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26662

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26661

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26660

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26659

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26658

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26657

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
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```

26656

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
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/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26655

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26654

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26653

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26652

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26651

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26650

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26649

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26648

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26647

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26646

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26645

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26644

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26643

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26642

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26641

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```


26640

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26639

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26638

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26637

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26636

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26635

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in divide
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26634

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26633

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26632

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26631

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26630

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26629

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26628

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26627

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26626

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26625

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26624

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26623

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26622

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26621

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26620

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26619

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26618

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26617

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26616

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26615

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26614

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26613

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26612

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26611

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26610

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26609

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26608

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26607

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26606

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26605

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26604

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26603

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26602

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```


26601

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26600

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26599

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26598

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26597

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26596

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26595

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26594

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26593

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in less
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26592

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26591
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26590
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26589
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26588
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26587
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26586
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26585
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26584
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26583
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26582
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26581
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26580
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26579
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26578
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26577
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26576
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26575
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26574
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26573
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26572
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26571
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26570
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26569
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26568
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26567
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26566
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26565
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26564
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26563
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26562
hxr


```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26561
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26560
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26559
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26558
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26557
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26556
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26555
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26554
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26553
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26552
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26551
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26550
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26549
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26548
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26547
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in divide
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26546

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26545

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26544

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26543

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26542

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26541

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in less
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26540

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26539

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26538

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26537

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26536

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26535

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26534

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in less
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26533

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26532

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26531

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26530

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26529

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26528

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26527

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26526

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26525

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26524

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
```



```
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26523

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26522

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26521

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26520

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26519

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26518

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26517

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26516

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26515
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26514
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26513
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26512
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26511
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26510

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26509

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26508

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26507

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26506

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26505

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26504

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26503

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26502

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26501

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26500

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26499

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26498

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26497

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26496

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26495

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26494

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in less
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26493

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26492

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26491
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26490
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26489
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26488
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26487
hxr


```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26486
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26485
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26484
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26483
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26482
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26481
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26480
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26479
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26478
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26477
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26476
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26475
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26474
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26473
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26472
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26471

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26470

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26469

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26468

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26467

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26466

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26465

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26464

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26463

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26462

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26461

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26460

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26459

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26458

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26457

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26456

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26455

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26454

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26453

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26452

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26451

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26450

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26449

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26448

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```


26447

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26446

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26445

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26444

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26443

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26442

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26441

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26440

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26439

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26438

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26437

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26436

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26435

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26434

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26433

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in divide
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26432

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26431

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26430

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26429

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

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```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err'] )
```

26375
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err'] )
```

26374
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err'] )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in divide
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26373
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
```

```
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26372

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26371

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

26370

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

26369

hxr


```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26368

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26367

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26366

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26365

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26364
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26363
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26362
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26361
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26360
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26359
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26358
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26357
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26356
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26355
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26354
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26353
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26352
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26351
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for values that may be nan
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for values that may be nan
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26350
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26349

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26348

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26347

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in less
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26346

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26345

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26344

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26343

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26342

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26341

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26340

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26339

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26338

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26337

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26336

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26335

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26334

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26333

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26332

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26331

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```


26330

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26329

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26328

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26327

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in less
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26326

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26325
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26324
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26323
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
```

```
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26322

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']}
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26321

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']}
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26320

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']}
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26319

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']}
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

```
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26318
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26317
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26316
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
```

```
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26315
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26314
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26313
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26312
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
```

```
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

```
26311
hxr
```

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

```
26310
hxr
```

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

```
26309
hxr
```

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

```
26308
hxr
```

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

```
26307
hxr
```

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26306

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26305

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26304

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26303

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26302

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26301

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26300

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26299

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26298

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
```



```
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26297

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
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26296

hxr

```
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26295

hxr

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26294

hxr

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26293

hxr

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26292

hxr

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26291

hxr

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26290

hxr

```
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26289

hxr

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26288

hxr

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26287

hxr

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26286

hxr

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26285

hxr

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26284

hxr

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26283

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26282

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26281

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26280

hxr

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26279

hxr

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26278

hxr

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26277

hxr

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26276

hxr

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26275

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26274

hxr

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26273

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26272

hxr

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26271

hxr

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26270

hxr

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26269

hxr

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26268

hxr

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26267

hxr

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26266

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
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26265

hxr

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/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
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26264

hxr

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/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
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26263

hxr

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/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
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26262

hxr

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/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
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26261

hxr

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/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
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26260

hxr

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26259

hxr

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26258

hxr

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26257

hxr

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26256

hxr

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/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
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26255

hxr

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26254

hxr

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26253

hxr

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26252

hxr

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26251

hxr

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26250

hxr

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26249

hxr

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26248

hxr

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26247

hxr

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26246

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
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26245

hxr

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26244

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hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in less
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26243

hxr

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/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
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26242

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26241

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26240

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26239

hxr

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26238

hxr

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26237

hxr

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26236

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26235

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26234

hxr

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26233

hxr

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26232

hxr

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26230

hxr

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26229

hxr

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26228

hxr

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26227

hxr

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26226

hxr

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26225

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26224

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26223

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26222

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26221

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26220

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26219

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26218

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26217

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26216

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26215

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26214

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26213

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26212

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26211

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26210

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26209

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26208

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26207

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26206

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26205

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26204

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
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26203

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
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26202

hxr

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/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
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26201

hxr

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/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
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26200

hxr

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/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
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26199

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
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26198

hxr

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/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
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26197

hxr

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/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
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26196

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
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/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
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26195

hxr

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/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
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26194

hxr

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/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
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26193

hxr

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/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
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/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
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26192

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
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26191

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
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26190

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
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26189

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
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26188

hxr

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/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
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/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
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26187

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
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/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
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26186

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
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/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
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26185

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
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26184

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
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26183

hxr

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/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26182

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26181

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26180

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26179

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26178

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26177

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26176

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26175

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26174

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26173

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26172

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26171

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26170

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26169

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26168

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-boolean DataArray objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
```

```
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26167
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26166
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26165
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
```

```
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26164
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err'] )
```

26163
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err'] )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26162
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err'] )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26161
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26160
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26159
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26158
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
```

```
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26157

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']})
```

26156

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']})
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26155

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']})
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26154

hxr


```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26153

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26152

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26151

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
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  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26150

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
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  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26149

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
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26148

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
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```

26147

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
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  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26146

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
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```

26145

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
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26144

hxr

```
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```

26143

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
```

```
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```

26142

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
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```

26141

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
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```

26140

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
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```
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```

26139
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `Nor
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```

26138
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `Nor
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26137
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `Nor
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
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```

26136
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
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```

26135
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
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26134
hxr

```
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  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
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```
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26133

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
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26132

hxr

```
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26131

hxr

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26130

hxr

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26129

hxr

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26128

hxr

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26127

hxr

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```


26126

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
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```

26125

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
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```

26124

hxr

```
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```

26123

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26122

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26121

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26120

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26119

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26118

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26117

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26116

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26115

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26114

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26113

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26112

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in divide
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26111
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26110
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26109
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26108
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

26107

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26106

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in subtract
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26105

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26104

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26103

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26102

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26101

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26100

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26099

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26098

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26097

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26096

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26095

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like values
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like values
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26094

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26093

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26092

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26091

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26090

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
```



```
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26089
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']})
```

26088
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']})
```

26087
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']})
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26086
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
```

```
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

26085

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

26084

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

26083

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

26082

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0
```

26081

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26080
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26079
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26078
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26077
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26076
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26075
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26074
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26073
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26072
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26071
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26070

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26069

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26068

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26067

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26066

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26065

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26064

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26063

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26062

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26061

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26060

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26059

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26058

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in less
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26057

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26056

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26055

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26054

hxr


```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26053

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26052

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26051

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26050

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26049

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
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  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26048

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26047

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26046

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

```
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarnin
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarnin
    ret, rcount, out=ret, casting='unsafe', subok=False)
```

26045

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `Non
    args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']=}
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `Non
    'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
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    offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarnin
    warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarnin
    ret, rcount, out=ret, casting='unsafe', subok=False)
```

26044

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `Non
    args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']=}
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `Non
    'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
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    warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarnin
    ret, rcount, out=ret, casting='unsafe', subok=False)
```

26043

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `Non
    args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']=}
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `Non
    'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
```

26042

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26041

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26040

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26039

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26038

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for non-numeric data types
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for non-numeric data types
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26037

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
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  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26036

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26035

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26034

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
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```
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/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarnin
    ret, rcount, out=ret, casting='unsafe', subok=False)
```

26033
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `Nor
    args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']=
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `Nor
    'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
```

26032
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `Nor
    args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']=
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `Nor
    'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
```

26031
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `Nor
    args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']=
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `Nor
    'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
```

26030
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `Nor
    args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']=
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `Nor
    'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
```

26029

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26028

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
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  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26027

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26026

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26025

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26024

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

26023

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
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  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26022

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26021

hxr


```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26020

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26019

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for bool-like objects
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in reduce
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26018

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for bool-like objects
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
```

```
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26017

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26016

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26015

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None`
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']==None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None`
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']
```

```
'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
    offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarnin
    warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarnin
    ret, rcount, out=ret, casting='unsafe', subok=False)
```

26014
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `Nor
    args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']=
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `Nor
    'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
    offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarnin
    warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarnin
    ret, rcount, out=ret, casting='unsafe', subok=False)
```

26013
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `Nor
    args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']=
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `Nor
    'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
    offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarnin
    warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarnin
    ret, rcount, out=ret, casting='unsafe', subok=False)
```

26012
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `Nor
    args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']=
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `Nor
    'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else dat
```

```
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26011
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err'])
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26010
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err'])
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26009
hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']})
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err'])
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
```

```
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26008

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
'data_err': None if 'data_err' not in data_0 or data_0['data_err']!=None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26007

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
'data_err': None if 'data_err' not in data_0 or data_0['data_err']!=None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
ret, rcount, out=ret, casting='unsafe', subok=False)
```

26006

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
'data_err': None if 'data_err' not in data_0 or data_0['data_err']!=None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
```

```
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26005

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']!=None else data_0['data_err'] )
```

26004

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']!=None else data_0['data_err'] )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26003

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']!=None else data_0['data_err'] )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning:
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning:
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

26002

hxr

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
hxr_integral.py:15: RuntimeWarning: invalid value encountered in less
  offset = np.mean(hxr[t < hxr.plasma_start - 2e-3])
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:59: RuntimeWarning: Mean of empty slice.
  warnings.warn("Mean of empty slice.", RuntimeWarning)
/opt/anaconda2/lib/python2.7/site-packages/numpy/core/_methods.py:68: RuntimeWarning: invalid value encountered in divide
  ret, rcount, out=ret, casting='unsafe', subok=False)
```

```
26001
hxr
```

```
/golem/database/pygolem_lite/pygolem_lite.py:191: FutureWarning: comparison to `None` not supported for boolean operations
  args.update( {'tvec_err': None if 'tvec_err' not in data_0 or data_0['tvec_err']!=None else data_0['tvec_err']} )
/golem/database/pygolem_lite/pygolem_lite.py:192: FutureWarning: comparison to `None` not supported for boolean operations
  'data_err': None if 'data_err' not in data_0 or data_0['data_err']==None else data_0['data_err']} )
```

```
In [79]: len(res)
```

```
Out[79]: 1354
```

```
In [80]: good_res = [r for r in res if r is not None]
```

```
In [81]: len(good_res)
```

```
Out[81]: 1047
```

```
In [24]: import pandas as pd
```

```
In [82]: df = pd.DataFrame(np.asarray(good_res),
                           columns=['shot', 'hxr', 'Bt', 'UBt',
                                    'Ip', 'Ucd', 'Tcd', 'q', 'WG', 'p',
                                    'Tpl',
                                   ])
```

```
In [83]: df = df.set_index('shot')
```

```
In [85]: for c in df.columns:
         if c != 'WG':
             df[c] = pd.to_numeric(df[c], errors='coerce')
```

```
In [86]: df['hxr'] *= 1e6
```

```
In [87]: df['Tcd'] -= 0.005
         df['Tcd'] *= 1e3
```

```
In [88]: df['q'] = np.clip(df['q'], 0, 10)
```

```
In [89]: df['Ip'] *= 1e-3
```

```
In [90]: df['Tpl'] *= 1e3
```

```
In [91]: df['hxr/Tpl'] = df['hxr'] / df['Tpl']
```

```
In [109]: df = df[df['p']>0]
```

```
In [110]: df.head()
```

```
Out[110]:
```

	hxr	Bt	UBt	Ip	Ucd	Tcd	q	WG	
shot									
27354	5.784997	0.391038	1300.0	4.31499	400.0	0.0	4.07804	H	25.4
27353	10.294616	0.391762	1300.0	4.08959	400.0	0.0	4.31077	H	25.4
27352	11.756489	0.394107	1300.0	4.01649	400.0	0.0	4.41551	H	25.4
27351	14.667777	0.395699	1300.0	3.90825	400.0	0.0	4.55613	H	25.2
27350	6.387392	0.390315	1300.0	4.14999	400.0	0.0	4.23234	H	25.6

	Tpl	hxr/Tpl
shot		
27354	23.10	0.250433
27353	23.02	0.447203
27352	23.74	0.495219
27351	23.94	0.612689
27350	23.22	0.275081

```
In [112]: df.describe()
```

```
Out[112]:
```

	hxr	Bt	UBt	Ip	Ucd
count	1025.000000	1046.000000	1046.000000	1036.000000	1046.000000
mean	7.646301	0.253151	964.583174	3.166802	486.411090
std	18.245861	0.091461	205.575701	1.817735	115.899202
min	-3.815311	0.032638	200.000000	0.086490	200.000000
25%	-0.077025	0.195845	800.000000	1.484315	400.000000
50%	0.696855	0.251356	900.000000	3.179415	450.000000
75%	6.680860	0.307777	1100.000000	4.452970	550.000000
max	152.121047	0.486586	1300.000000	7.637150	1099.000000

	Tcd	q	p	Tpl	hxr/Tpl
count	1046.000000	1036.000000	1046.000000	1026.000000	1025.000000
mean	1.473266	4.462253	22.761184	11.982651	0.520736
std	2.168723	2.431837	9.410865	5.063450	1.156346
min	0.000000	1.481670	2.658790	1.300000	-1.550939
25%	0.000000	2.698130	18.657475	9.140000	-0.007397
50%	1.000000	3.538215	20.330300	12.200000	0.065421
75%	1.000000	5.187047	25.472825	15.780000	0.531143
max	15.000000	10.000000	67.645200	25.740000	8.209048


```
In [95]: import seaborn as sns
```

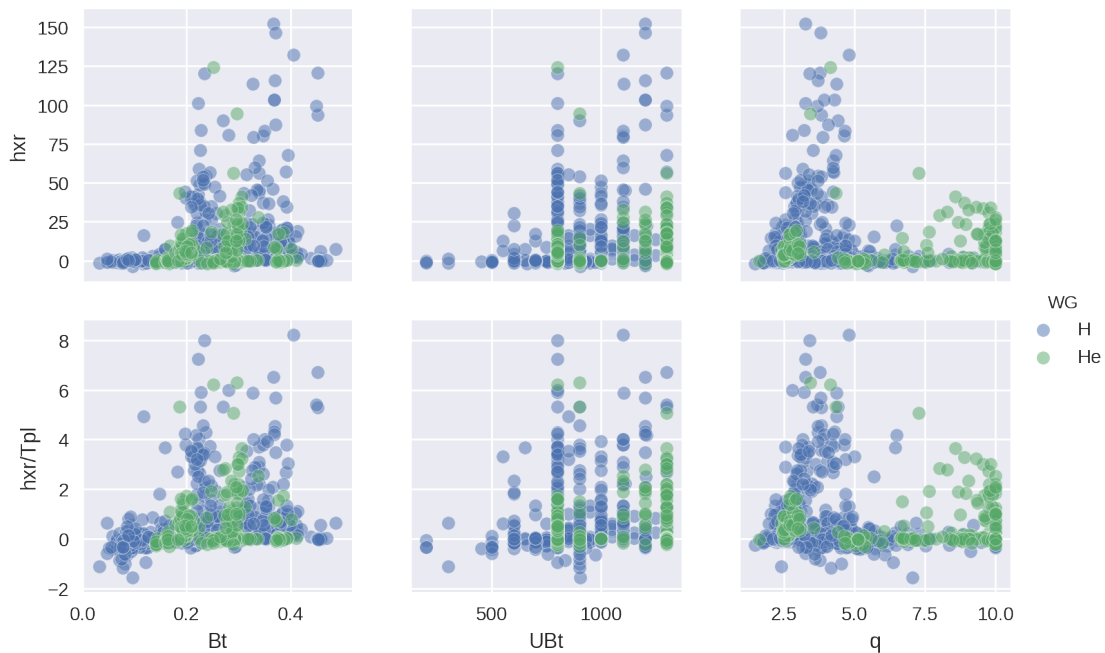
```
In [96]: df.columns
```

```
Out[96]: Index([u'hrx', u'Bt', u'UBt', u'Ip', u'Ucd', u'Tcd', u'q', u'WG', u'p', u'  
u'hrx/Tpl'],  
              dtype='object')
```

```
In [113]: plt.rcParams['figure.dpi']=200
```

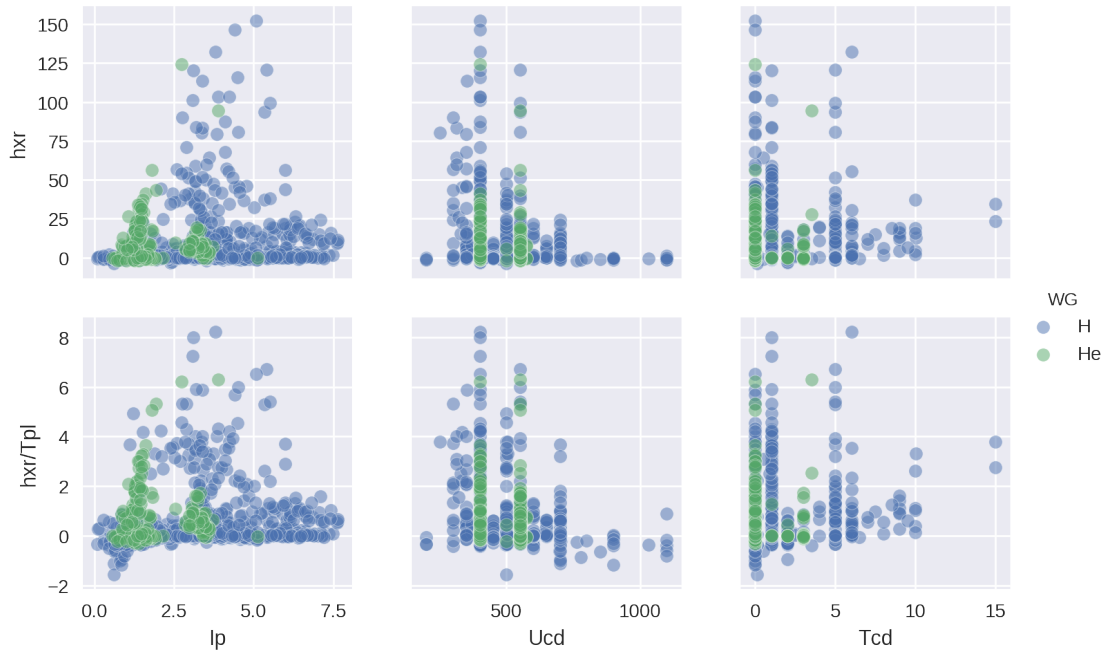
```
In [124]: def show_vars(df, x_vars=None):  
    if x_vars is None:  
        x_vars=[u'Bt', u'UBt', u'Ip', u'Ucd', u'Tcd', u'q', u'p', u'Tpl']  
    sns.pairplot(df, hue='WG', plot_kws=dict(alpha=0.5),  
                x_vars=x_vars,  
                y_vars=[u'hrx', u'hrx/Tpl'],  
                );
```

```
In [128]: show_vars(df, ['Bt', 'UBt', 'q'])
```



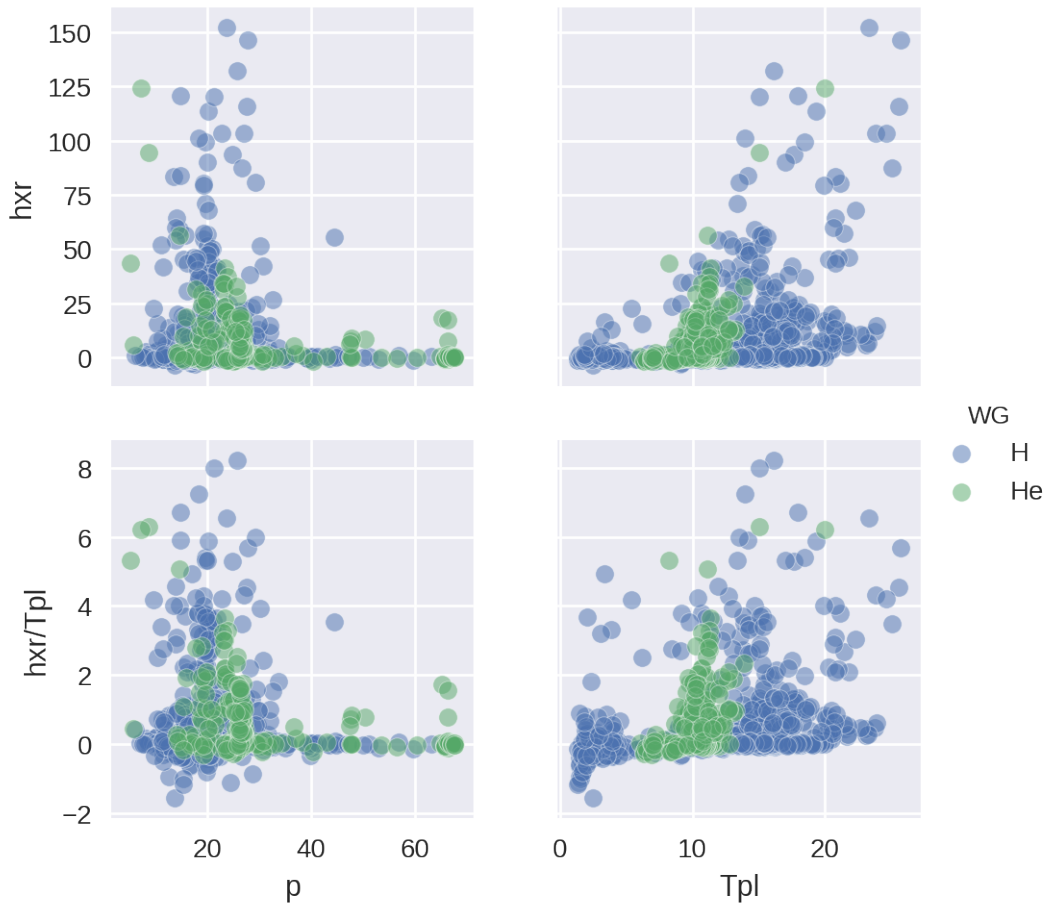
Higher magnetic fields are better, but there is not a very clear, simple trend. Most large HXR are around $q=4$.

```
In [127]: show_vars(df, ['Ip', 'Ucd', 'Tcd'])
```



Most discharges with large HCR have a current around 4 kA, usually for lower Ucd and Tcd , but there is no clear trend (there are also small HXR present for small Ucd and Tcd)

```
In [129]: show_vars(df, ['p', 'Tp1'])
```



Largest HXR are below 30-40 mPa and HXR intensity is nearly quadratic in plasma lifetime.

```
In [119]: df_best = df.sort_values(by='hxr', ascending=False)
```

```
In [130]: df_best.head(20)
```

```
Out [130]:
```

	hxr	Bt	UBt	Ip	Ucd	Tcd	q	WG
shot								
26236	152.121047	0.367324	1200.0	5.07704	400.0	0.000	3.25575	H
26235	146.396614	0.371751	1200.0	4.39654	400.0	0.000	3.80499	H
26068	132.165672	0.405591	1100.0	3.80189	400.0	6.000	4.80066	H
26030	124.437933	0.251719	800.0	2.74149	400.0	0.000	4.13182	He
26724	120.539020	0.452989	1300.0	5.40074	550.0	5.000	3.77440	H
26029	120.101394	0.234834	800.0	3.10725	400.0	1.000	3.40093	H
26234	115.850470	0.369640	1200.0	4.48722	400.0	0.000	3.70692	H
26483	113.832917	0.326987	1103.0	3.37609	351.0	0.000	4.35841	H
26231	103.519851	0.368248	1200.0	4.22748	400.0	0.000	3.91986	H
26232	103.356476	0.368305	1200.0	3.87523	400.0	0.000	4.27684	H
26659	101.091843	0.223002	800.0	3.08899	400.0	1.000	3.24866	H
26725	99.623203	0.450313	1300.0	5.51080	550.0	5.000	3.67716	H

26245	94.532615	0.296502	900.0	3.89117	550.0	3.500	3.42894	He
26726	93.469455	0.453110	1300.0	5.32911	550.0	5.000	3.82614	H
26440	90.180067	0.269942	900.0	2.75748	300.0	0.000	4.40525	H
26237	87.483322	0.370752	1200.0	4.10486	400.0	0.000	4.06441	H
26328	83.879179	0.228175	800.0	3.19387	400.0	1.000	3.21487	H
26487	83.573073	0.349694	1100.0	3.38356	313.0	0.997	4.65079	H
26059	80.900073	0.280689	800.0	4.51976	550.0	5.000	2.79461	H
26531	80.271444	0.346838	1100.0	3.36599	250.0	0.000	4.63688	H

	p	Tpl	hxr/Tpl
shot			
26236	23.6471	23.30	6.528800
26235	27.7821	25.74	5.687514
26068	25.6448	16.10	8.209048
26030	7.1986	20.02	6.215681
26724	14.7881	17.98	6.704061
26029	21.3412	15.02	7.996098
26234	27.5838	25.58	4.528947
26483	20.1860	19.34	5.885880
26231	22.7290	24.62	4.204706
26232	27.0456	23.86	4.331789
26659	18.2537	13.98	7.231176
26725	19.6694	18.46	5.396707
26245	8.6642	15.02	6.293783
26726	24.8412	17.66	5.292721
26440	19.8884	16.98	5.310958
26237	26.7275	25.10	3.485391
26328	14.8404	14.18	5.915316
26487	13.4963	20.78	4.021803
26059	29.2189	13.54	5.974895
26531	19.1197	21.18	3.789964

```
In [120]: import jinja2
```

```
In [121]: t = jinja2.Template("""
<html>
<body>
<table>
<tr><th>shot</th><th>hxr</th><tr>
{% for shot, row in df.iterrows() %}
<tr>
<td><a href="http://golem.fjfi.cvut.cz/shots/{{ shot }}">{{ shot }}</a></td>
<td><a href="http://golem.fjfi.cvut.cz/shots/{{ shot }}/DAS/0311Tektronix">
</td></tr>
{% endfor %}
</table>
</body>
</html>
""")
```

```
In [131]: with open('hxr_best.html', 'w') as out:  
          out.write(t.render(df=df_best))
```