

Tokamak room

internet

Virtual control room (remote participation)

USB & TCP/IP

USB & TCP/IP

Control PC



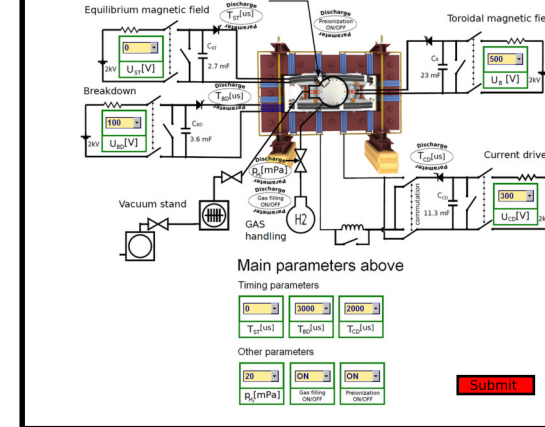
OpenSSH server

WWW server
OpenSSH server

WWW control interface

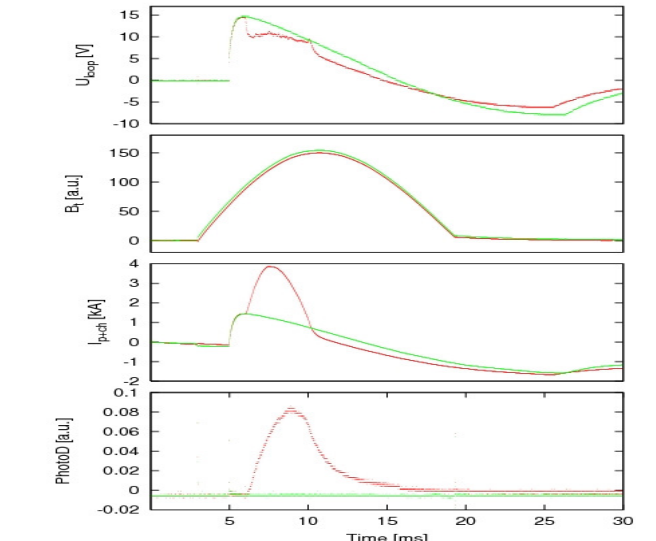
Data presentation

HTML & PHP scripts



SSH control interface

HTML (www pages)



Data handling

- *wget
- *gnuplot
- *idl
- *mathematica
- *matlab
- *etc...

WINDOWS via putty

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scndtrial: #with hydrogen
wake -iBs -C velIn shot Ue=400 Ub=400 Td=2000 HZfilling=1 pHz=66

H2seq:
wake -iBs -C velIn shot Ue=400 Ub=400 Td=2000 HZfilling=0 pHz=66 #H2 off
wake -iBs -C velIn shot Ue=400 Ub=400 Td=2000 HZfilling=1 pHz=66 #Approx 30 sPa
wake -iBs -C velIn shot Ue=400 Ub=400 Td=2000 HZfilling=1 pHz=68 #Approx 40 sPa
wake -iBs -C velIn shot Ue=400 Ub=400 Td=2000 HZfilling=1 pHz=70 #Approx 50 sPa
wake -iBs -C velIn shot Ue=400 Ub=400 Td=2000 HZfilling=1 pHz=72 #Approx 70 sPa
wake -iBs -C velIn shot Ue=400 Ub=400 Td=2000 HZfilling=1 pHz=100 #Approx 100 sPa

firstloop:
for Ue in `seq 300 180 700`; do
  make -iBs -C velIn shot Ue=$Ue Ub=400 Td=2000 pHz=68 HZfilling=1;
done;

grandloop:
for Td in `seq 2000 2000 8000`; do
  for pHz in `seq 68 70 72`; do
    for Ub in `seq 600 300 1200`; do
      for Ue in `seq 600 300 1200`; do
        wake -C velIn -iBs shot Ue=$Ue Ub=$Ub Td=$Td pHz=$pHz H
      done;
    done;
  done;
done;

vacuumseq:
for Ue in `seq 100 200 700`; do

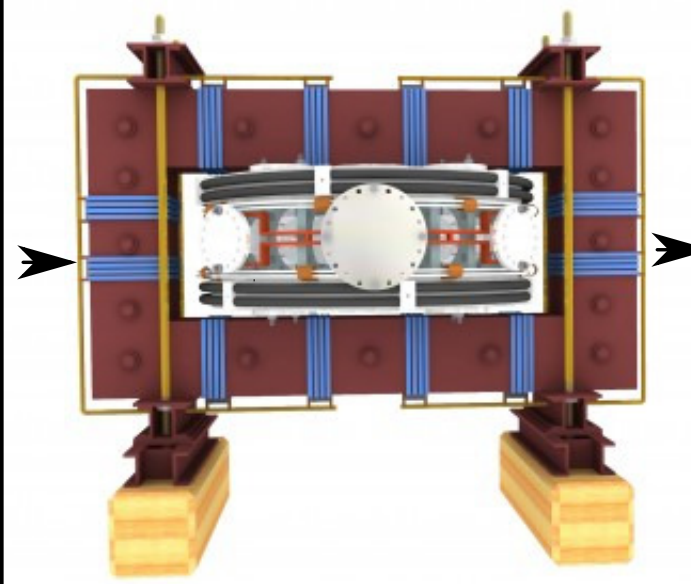
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LINUX via ssh
or ssh+X tunnel
(advanced mode)

-Plasma ignition & maintaining

- *Magnetic confinement
- *Breakdown pulse
- *Current drive
- *Plasma stabilisation

- Vacuum & H₂ management
- Baking system



plasma DAS

- U_{loop}
- I_{pl}
- B_t
- I_{rad}
- chamber DAS
- T_{chamber}
- p_{H₂}

