

## Education and training (& PR)

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for IBA 2016

September 21, 2016

# Outline

- 1 Curriculum "Physics and Technology of Thermonuclear Fusion"
- 2 Tokamak GOLEM
- 3 Promo

- !! Doctoral study program !!
- November 2015: FUSENET PhD event.
- Application for Joint degree program submitted.
- Application for PlasmaLab@CTU program submitted.

# PhD event 2015



Success

- 130 students.
- Welcome team-building game and party.
- Plenary talks and discussions.
- Plenary oral presentations.
- Poster sessions.
- Excursions.
- Boat cruise and Dinner, with Tokamak Music Experience.

## Operational Programme Research, Development and Education

International doctoral programme in high-temperature plasma and nuclear fusion.

≈ 250 k€

- Joint doctoral degree with the Gent University.

Crossing fingers

Operational Programme Research, Development and Education

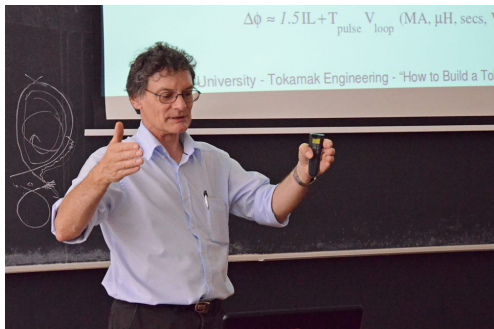
High Temperature Plasma and Fusion Technology Laboratory

≈ 1 M€

- Paschen curve measurement.
- Microwave discharge.
- High temperature diagnostics tools.
- Data acquisition systems.
- Various laboratory tools.
- Tokamak GOLEM support.
- Sonoluminescence
- ....

Crossing fingers

# Thomas Noel Todd lecture for FTTF students



Lecture

How to build a tokamak.

To be continued ..

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## Forecast 2015/2016

- The Night of Scientists II. ✓
- Traditional TRAIning Courses: FUMTRAIC IV ✓, SCIWTRAIC VI ✓, HUNTRAIC V ✓ (last week), SUMTRAIC@GOLEM VIII X(())SOFT), EMTRAIC@GOLEM III ✓.
- Bachelor thesis ✓: Tatiana Okonechnikova - 3D model defended.
- Diploma thesis IV cont ✓: Bořek Leitl - Bolometry.
- papers in FUSENGDES,. ✓, AJP X(.). ?
- IAEA TM (Prague) presentation ✓.
- PhD event GOLEM presentation ✓.
- + Training courses from Kiten, Grenoble, Belgrade, Kobenhaven

## Current status

- Vacuum problem (a hole in the vessel?). Historical copper shell prevents easy repair. REPAIRED!
- 3rd version of the tokamak GOLEM 3D model (Tatiana Okonechnikova).
- => Big plans :-) But lack of time :-)

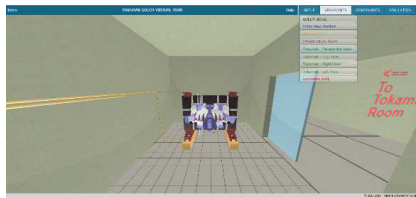
## Forecast 2016/2017

- The Night of Scientists III (next Friday).
- Traditional TRAIning Courses: FUMTRAIC V, SCIWTRAIC VII, HUNTRAIC VI, SUMTRAIC@GOLEM VIII, EMTRAIC@GOLEM IV.
- Bachelor thesis ?
- Diploma thesis IV cont.
- papers in FUSENGDES, AJP .. ?
- Training course from Belgrade II (next Thursday).
- Training course for Turin University in consideration.

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# GOLEM discharges for broad public

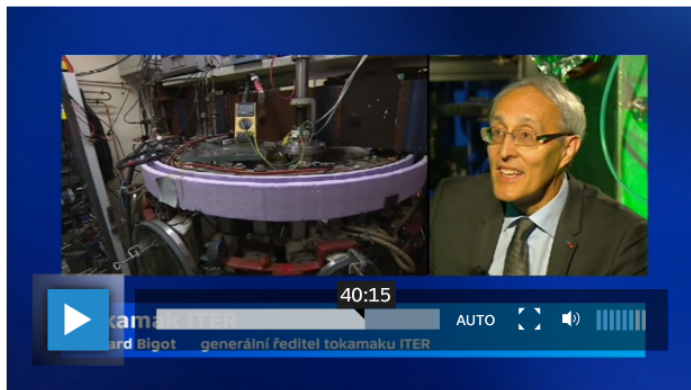


- Live.
- As simple as possible.
- 3 parameters  $B_t$ ,  $E_t$ ,  $p_H$ .
- Cooperation with the ITER PR.
- ?? Every first Wednesday in the month
- ?? 24 hours of operation
- Web based application.  
First sketch ready.

Welcome ..

suggestion, comments, cooperation ...

# ITER DG, Mr. Bernard Bigot at the GOLEM (Shot #22185)



Quotation from Czech Television Hydepark

*I am very pleased with the GOLEM ...*

# GOLEM promo for Albert II, Prince of Monaco Shot #22407 a few hours ago ..



So .. we can say :-)

**GOLEM:** First ever tokamak operated from the ITER site.

**2016:** First tokamak plasma configured at the ITER site.

# Acknowledgement

## Acknowledgement

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