

# **ATHENS 2017 : PHYSICS OF EXTREME SYSTEMS**

Course CTU18 – Autumn Term - Time Schedule (Version 3.0)

Course director: Prof. Ladislav Drska Course co-director: Prof. Richard Liska

*Faculty of Nuclear Sciences and Physical Engineering CTU  
Department of Physical Electronics, Trojanova 13, Prague 2, Lecture room 121*

## **November 13 : Monday**

09:00 – 09:05 Introduction (R. Liska & L. Drska, FNSPE)

09:05 – 10:45 Modern Physics - Lasers, Plasmas, Nuclei (M. Sinor, FNSPE)

11:00 – 12:40 Postmodern Physics and Extreme Systems (L. Drska, FNSPE)

*Lunch*

*14.00 – 15.40 Hydrodynamic Simulations of Laser Interaction with Targets (R. Liska, FNSPE)*

*15.40-16.00 Transfer to FNSPE Brehova : Tram No17 from Palackeho namesti or Jiraskovo namesti to Pravnicka fakulta ( J. Niki, FNSPE)*

16.00 – 17.40 *Laboratory visit 1 : FNSPE Tokamak Laboratory: Tokamak Golem (V. Svoboda, FNSPE)*

## **November 14 : Tuesday**

09.00 – 10:40 Warm Dense Matter Physics (K. Falk, ELI)

11.00 – 12:40 Laser-driven Electron and Ion Acceleration (J. Psikal, FNSPE)

Sorry, we have no time for lunch, we have to move to Dolni Brezany immediately after the lecture.

*13.00 – 14.00 Individual Transfer to Dolni Brezany (Metro line C, station Kacerov, Bus 333, final stop Obecni urad). (J. Niki, FNSPE)*

*14..00 – 15:00 Laboratory Visit 2 : HILASE Laboratories*

*15.00 – 16.40 Laser Plasma X-ray Sources (J. Nejd, ELI)*

*16..40 – 17:40 Laboratory Visit 3: ELI Beamlines Halls*

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*Individual return to Prague*

## **November 15 : Wednesday**

09:00 – 10:40 Physics of Nucleoreactive Plasmas (L. Drska, FNSPE)

11.00 – 12:00 *Laboratory Visit 4: FNSPE : Dept. of Phys. Electronics – Laser laboratories Trojanova*

Lunch

**15:30 : Excursion – National Technical Museum**

**November 16 : Thursday**

09:00 – 10:40 Inertial Confinement Fusion (*J. Limpouch, FNSPE*)

11:00 – 12:40 Laser-driven Tertiary Particle Sources (*L. Drska, FNSPE*)

**Lunch**

*13.40 – 14.30 Individual Transfer to Tokamak COMPASS Laboratory: from Karlovo namesti metro line B to Florenc , then metro line C from Florenc to Ladvi, 10 min. walking to IPP COMPAS Lab.*

14.30 – 16.30 Laboratory Visit 5: IPP CAS – Tokamak COMPASS Laboratory

**November 17 : Friday**

09:00 – 10:40 Laser-based Exotic Matter Physics (*L. Drska, FNSPE*)

11:00 – 12:40 Computational Laboratory : Web Sites and Study Materials for Physics of Extreme Systems  
(*M. Sinor, FNSPE*).

**14.00– 14.30 Final Test (*L. Drska*)**

14:30 – 14:40 Conclusion (*L. Drska, FNSPE*)

**18:00 Farewell Dinner**