



Extatic Welcome Week

Faculty of Nuclear Sciences & Physical Engineering of CTU,
Prague

22 – 24 September 2017

Programme

Friday 22nd September '17

08:30 – 09:00 Registration

09:00 – 09:10 Opening

09:10 – 10:00 **Invited – L. Pina** (Czech Technical University in Prague, FNSPE)

X-Ray Optics

10:00 – 10:50 **Invited – A. Endo** (HiLASE project, IoP CAS Prague)

XUV Lithography and source technology

10:50 – 11:10 Coffee break

11:10 – 12:00 **Invited - J. NejdI** (ELI Beamlines project, IoP CAS Prague)

Physics of Laser-driven short-wavelength sources

12:00 – 12:50 **Invited – L. Vysin** (Institute of Physics CAS Prague)

XUV Lasers in Radiation Biology

12:50 – 14:30 Bus trip to Dolni Brezany and lunch

14:30 – 18:30 **Excursion to ELI Beamlines & HiLASE laboratories**

18:30 – 19:00 Bus return to Prague

Saturday 23rd September '17

- 09:00 – 09:50 **Invited – Dimitris Charalambidis** (IESL-FORTH, Heraklion, Greece)
Title to be confirmed (Attosecond Science)
- 09:50 – 10:40 **Invited – Paola Zupella** (IFN – CNR, Padova, Italy)
EUV polarimetry and quarter wave plates development
- 10:40 – 11:10 Coffee break**
- 11:10 – 11:30 **Gladson Joseph**
Smallest Suns: Generating the hardest soft x-rays from the hottest smallest laser plasmas
- 11:30 – 11:50 **Lazaros Varvarezos**
Vacuum-UV Two-Photon Ionization of Krypton
- 11:50 – 12:10 **Ragava Reddy Lokasani**
XUV spectra of 2nd transition row elements irradiated by femtosecond laser pulses
- 12:10 – 12:30 **Ismail Abdalla Saber** *Time-integrated optical and extreme ultraviolet emission studies of the laser produced neon plasma*
- 12:30 – 12:50 **Syedah Sadaf Zehra**
Time resolved VUV LIBS for detection of light elements in metals- Limit of detection optimization
- 12:50 – 14:00 Lunch**
- 14:00 – 14:20 **Kety Jimenez Tejera**
Optical And Structural Characterization Of Nb, Zr, Nb/Zr, Zr/Nb Thin Films On Si₃N₄ Membranes Windows
- 14:20 – 14:40 **Daniel Vicario**
Laboratory tomographic microscopy with compact plasma based extreme ultraviolet and soft x-ray sources
- 14:40 – 15:00 **Ellie Barte**
Enhancement of extreme ultraviolet emission from laser irradiated targets by surface nanostructures
- 15:20 – 15:40 Coffee Break**
- 15:40 – 17:00 **All Extatic Meeting** (Doctoral Candidates 2014, 2015, 2016, Extatic Secretariat and Extatic Partners)
- 19:00 Dinner**



Sunday 24th September '17

09:00 – 09:20 Katravulapally Tejaswi

Ab-initio quantum dynamics imaging using circularly polarized light

09:20 – 09:40 Haoyan Lu

Reflection-mode Coherent Diffraction Imaging using Laboratory Light Sources

09:40 – 10:00 Malik Nadeem Ahmed

Optical constants and polarimetric properties measurements of Material(s) in the Extreme EUV range

10:00 – 10:20 Seyed Moein Ghafoori *Methodology development for characterization of nanostructured layered by using ultraviolet scatterometry*

10:20 – 10:40 Coffee Break

10:40 – 12:10 EMC Meeting

12:10 – 12:30 EXTATIC Summary and Close – John Costello

12:30 Close of Welcome Week