ELI Beamlines workshop on
Laser-driven X-ray Sources and Applications
ELI Beamlines, Dolni Brezany, Czech Republic
24- 25th October 2019

Thursday 24th October

Session 1 – X-ray sources and applications at ELI Beamlines
15:50- 16:50  J. Andreasson and other RPLs / Workshop introduction (15 mins)
16:50-17:10  B. Angelov (ELI Beamlines, CZ) / TREX experiments at ELI Beamlines
17:10-17:30  R. Jack (ELI Beamlines, CZ) / ELI Bio and Support Lab
17:30-17:50  Visit to Biolab and Experimental hall E1
18:30 - 21:00 - Workshop dinner, Canteen on the 1st floor

Friday 25th October

Session 2 – X-ray sources from relativistic electrons and application
9:00- 9:25  J. C. Kieffer (INRS, Canada) / Experimental scaling laws for LWFA-based X-ray betatron and some application
9:25-9:45  V. Tomkus (FTMC, Lithuania) / Enhanced betatron radiation from multistage gas targets
9:45-10:10  F. Dorchies (CELIA, France) / Comparison of x-ray sources generated from fs laser-plasma interaction on gas, clusters and solids
10:10-10:35  R. Pattathil (RAL, UK) / Commissioning the Gemini facility
10:35 - 10:50  Coffee Break

Session 3 – X-ray Spectroscopy
10:50-11:15  J. Szlachetko (PAS, Poland)/ X-ray spectroscopy with polychromatic X-ray sources
11:15-11:40  Z. Mathe (MPI, Germany) / In-House Calcium Valence-to-Core XES of Structural Mimics of the Oxygen-Evolving Complex

11:40-12:05  J. Uhlig (Lund, Sweden) / Ultrafast electron dynamics in real world light activated complexes studied by x-ray spectroscopy

12:05-12:30  J. Dohnalek (BIOCEV, CZ) / Three-dimensional studies of protein complexes - adding a dimension or two?

12:30 - 14:00  Lunch Break/Poster session/Site visit (including Experimental hall E1)

**Session 4 – X-ray Diffraction, Scattering and Pulse Radiolysis**

14:00-14:25  A. Koc (MBI, Germany) / Femtosecond hard x-ray pulses generated by 5 µm laser pulses

14:25-14:50  T. Pham (FemtoMax, Sweden) / FemtoMAX - an X-ray beamline for ultrafast structural dynamics studies at the MAX IV laboratory

14:50-15:15  P. Slavicek (UTC, CZ) / First few femtoseconds upon ionization: Theoretical perspective

15:15 - 16:00  Closure, Discussion