

INREX Meeting – Agenda

March 31th 2014

Hotel Novotel Warsaw Centrum, Warsaw, Poland

9:00 – 9:15 Welcome & Introduction

Reinhard Kienberger, MPQ

Objective 1: Few-cycle to single cycle mid-IR sources:

- 09:15 FSU: **M. Möller** „Strong-field ionization with intense mid-infrared few-cycle pulses“
09:30 CUSBO: **C. Manzoni** “Generation and manipulation of few-optical-cycle pulses in the 2-20 micron spectral range”,
09:45 ICFO: **J. Biegert** "Mid-IR recollision physics at ICFO"
10:00 LENS: **M. Bellini** "Recent results at LENS"

10:15 – 10:30 Coffee break

Objective 2: Ultra-short and intense THz sources:

- 10:30 FORTH: **S. Tzortzakis**: “Taming strong THz fields“
10:45 INFLPR: **T. Dascalu** "THz air-photonics sources at INFLPR"
11:00 VULRC: **V. Vaičaitis**: „Terahertz pulse generation in air by focused femtosecond laser pulses“

Objective 3: Improving as pulses photon energy, flux and repetition rate:

- 11:15 LLC: **C. Arnold** “Development of a high repetition rate attosecond source“
11:30 CLPU: **J. Perez-Hernandez** "Coherent radiation beyond the water window driven by 800nm laser pulses: theory and simulations"

Objective 4: XUV optics, detection and diagnostic techniques

- 11:45 FORTH: **D. Charalambidis** "FORTH-IESL's contributions to INREX"

12:00 – 13:30 lunch at the Hotel

Objective 5: Ultrafast XUV metrology/spectroscopy in atomic, molecular and solid state physics:

- 13:45 LLAMS: **K. Eikema** "Ramsey-comb spectroscopy"
14:00 CLF: **E. Springate** “XUV time-resolved photoemission spectroscopy at the CLF”
14:15 MPQ: **J. Riemensberger**: „Attosecond spectroscopy on layered systems“
14:30 CUSBO: **F. Calegari** “Attosecond electron dynamics in complex systems”
14:45 SLIC: **F. Quere** “HHG on spatially shaped plasma mirror”, **B. Carre** “HHG spectroscopy in molecules”
15:00 SLIC **B. Carré** “HHG spectroscopy in molecules”

Objective 6: Synchrotron sources and free-electron lasers based on laser plasma wakefield accelerators:

- 15:15 STRATH: **M. Wiggins** “Radiation from laser-driven plasma accelerator studies at ALPHA-X”.

15:30 – 16:00 Coffee break

Objective 7: Plasma and electromagnetic wigglers based on laser-plasma interactions:

- 16:00 LOA: **P. Zeitoun** „From XUV to hard X-ray laser-driven sources at LOA“

Objective 8: Realize ultra-intense lasers at nanometre wavelengths:

- 16:15 ISMO: **A. Klisnick** “Characterization of the coherence of the PALS X-ray laser”
16:30 PALS: **M. Kozlova** “Development and characterization of x-ray sources towards gigawatt peak power at PALS Centre“
16:45 GSI: **T. Kühl** “A double-stage SXR laser pumped by multiple pulses applied in grazing incidence”
17:00 MUT: **H. Fiedorowicz** " HHG using multi-jet targets and plasma channel formation for X-ray lasers"

Objective 9: Demonstrated high-average power HHG and soft x-ray lasers

- 17:15 MBI: **H. Stiel**: "High repetition rate X-ray laser at MBI"

Objective 10: Develop ultrafast imaging with techniques adapted to soft x-ray lasers:

- 17:30 IST: **M. Fajardo**: “Applications of coherent X-Ray sources”
17:45 CELIA: **E. Constant** "Single shot imaging of structured XUV beams"

18:00 General Discussion among INREX partners

20:00 – Dinner at the Hotel