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University of Szeged Hungary

LASERLAB USER MEETING

"From quantum electronics towards medicine and particle physics"

16-17th February 2012
University of Szeged
Location:

Building of the Hungarian Academy of Sciencies (SZAB) Somogyi u. 7. Szeged, Hungary

<u>Organizer</u>

Sándor Szatmári

University of Szeged, Department of Experimental Physics

Chairs

István Földes

Wigner Research Center of the HAS Institute for Particle and Nuclear Physics, Budapest, Hungary

Oldrich Renner

Institute of Physics, v.v.i. Academy of Sciences CR, Prague, Czech Republic

THURSDAY, FEBRUARY 16th 08:30-12:00 Registration 09:00-09:10 Opening by Organizer and Meeting Chairs 09:10-09:20 Welcoming by the Rector of the University of Szeged

Session 1.

Hot dense plasma diagnosis and emission characteristics Chair: István Földes, Budapest, Hungary

09:30-10:00	Recent investigations of laser-produced plasma jet formation and laser driven macroparticle acceleration for ICF and laboratory astrophysics applications, Tomasz Chodukowski, Institute of Plasma Physics and Laser Microfusion, Poland
10:00-10:30	Diagnostic of Hot Dense Plasmas by Advanced X-ray Spectroscopy, Ingo Uschmann, Jena University, Germany
10:30-11:00	Conversion efficiency measurement of relativistic harmonics, Angéla Barna, University of Szeged, Hungary
11:00-11:30	COFFEE BREAK
11:30-12:00	Laser-driven cylindrical compression of targets for fast electron transport study in warm and dense plasmas, <u>Luca Volpe</u> , University of Milano Bicocca, Italy
12:00-12:30	Equilibrium charge state distribution measurement in warm dense matter, <u>Maxence Gauthier</u> , <u>LULI</u>
12:30-13:00	Femtosecond Stimulated Resonance Raman (FSRRS) spectroscopy Sophia Hayes, University of Cyprus
13:00-14:30	BUFFET LUNCH

Session 2. Advanced plasma applications Chair: Oldrich Renner, Prague, Czech Republic

14:30-15:00	Ultrafast, coherent dynamics of biomimetic molecular switches, <u>Jérémie Léonard</u> , IPCMS-Université de Strasbourg, France
15:00-15:30	Gating of high-order harmonics emission by incommensurate two-color mid-IR laser pulses, Valer Tosa, National Institute for R&D Isotopic and Molecular Technolgies, Cluj-Napoca, Romania
15:30-16:00	Experimental results in shock ignition experiments at Pals: K-Alpha and shock waves generation, <u>Luca Antonelli</u> , University of Rome "Tor Vergata", Italy (presented by Luca Volpe)
16:00-16:30	Employing nonlinear imaging microscopy for characterization of microlenses produced in different biocompatible materials, Aleksandar Krmpot, Institute of Physics, Belgrade, Serbia
16:30-17:00	Overview of Laserlab Europe User training activities, <u>Dusan Chorvat</u> , International Laser Centre, Slovakia
19:30 -	GALA DINNER

FRIDAY, FEBRUARY 17th

08:00-08:30 **ELI-ALPS, the attosecond ELI facility in Szeged,** Károly Osvay, USZ, Szeged, Hungary

08:30-11:00 ACCESS BOARD MEETING

Session 3. Particles and radiative sources Chair: Károly Osvay, Szeged, Hungary

08:30-09:00	Laser ablation produced nanoparticles for cancer diagnostics and therapy, Alexandre (Sasha) Douplik, Erlangen University, Germany
09:00-09:30	Nonlinear excitation of tailored nanostructures (NEXT), Frank Güell, Universitat de Barcelona, Spain
09:30-10:00	Electron beam and X-ray radiation generated by laser wake field in dielectric capillary tubes, Jinchuan Ju, Universite Paris, France
10:00-10:30	Towards a laser based compact magnetic fusion device, Stavros Moustaizis, TUC
10:30-11:00	COFFEE BREAK
11:00-12:00	ROUND TABLE discussion "Towards Laserlab 3"
	chaired by Didier Normand
12:00	CLOSING REMARKS, END OF MEETING
12:30-13:30	OPTIONAL VISITS TO LASER LABORATORIES OF THE UNIVERSITY OF SZEGED