



A projekt az Európai Unió támogatásával, az Európai Szociális Alap társfinanszírozásával valósul meg.

PhD Conference of the Doctoral School for Physics

Faculty of Natural Sciences

Budapest University of Technology and Economics,

The conference is organized in the framework of *TÁMOP-4.2.2/B-10/1-2010-0009*

Friday, 22 June 2012

PROGRAM

Plenary session

Room: F. building F29

Chairman: Dr. Cs. Sükösd

- 9:00 Opening (*Cs. Sükösd*, TÁMOP coordinator of the Faculty of Sciences)
- 9:05 Atmospheric interface design for mass spectrometry
(*T. Majoros*, Department. of Atomic Physics)
- 9:30 The connection between tightly focused beams and the concentration problem on
the sphere (*K. Jahn*, Department of Physics)
- 9:55 Theoretical study of magnetic domain walls through a cobalt nanocontact
(*L. Balogh*, Department of Theoretical Physics)
- 10:20 Magnetic perturbation induced transport in fusion plasmas
(*G. Papp*, Institute of Nuclear Techniques)
- 10:45 Global superfluid and magnetic phase diagram of a three-component fermion
mixture (*M. Kanász-Nagy*, Department of Theoretical Physics)

Session A (Atomic Physics)

Room: F building F29

Chairman: Prof. P. Richter

- 13:00 Surface analytical investigation of Ti maxillofacial miniplates retrieved from the human body (*B. Sebők*, Department. of Atomic Physics)
- 13:25 Polarized light extraction from light emitting diodes by means of metallic nanostructures (*Ö. Sepsí*, Department of Atomic Physics)
- 13:50 Nanocrystal solar cells and impact ionization in silicon nanocrystals (*M. Vörös*, Department of Atomic Physics).
- 14:15 Measuring method for the examination of the polarization properties of low-birefringence optical materials (*B. Játékos*, Department of Atomic Physics)

Session B (Nuclear Techniques)

Room: R. building R214

Chairman: Dr. G. Pokol

- 13:00 Micro-XRF studies on biological samples using synchrotron radiation (*A. Gerényi*, Institute of Nuclear Techniques)
- 13:25 Beam Emission Spectroscopy Measurements on KSTAR (*M. Lampert*, Institute of Nuclear Techniques)
- 13:50 Photon FASTCAM SA5 camera control software development for fusion plasma measurements (*G. Náfrádi*, Institute of Nuclear Techniques)
- 14:15 Development of an enhanced atomic beam diagnostic for the COMPASS tokamak (*Cs. Buday*, Institute of Nuclear Techniques)