



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, 17 May 2013

THE LANGUAGE OF THE CONFERENCE IS HUNGARIAN AND ENGLISH

PROGRAM

Session A. Room: R. building R215 Chairman: Csaba Sükösd	Session B Room: R building R214 Chairman: László Szunyogh
8:30 Opening (<i>Csaba Sükösd</i>)	8:30 Opening (<i>László Szunyogh</i>)
8:35 Signal optimization of contrast enhanced GRE sequences using a 1 T permanent-magnet high homogeneity MRI system (<i>Noémi Kovács</i>)	8:35 Enhancing resilience in interdependent networks (<i>Marcell Stippinger</i>)
9:05 Determination of chemical state of the arsenic in plant samples by XANES (<i>Anita Gerényi</i>)	9:05 Ab initio spin dynamics: application to a linear ferromagnetic chain (<i>Levente Rózsa</i>)
9:30 Study of hydrogen permeation through polymer membranes (<i>Béla Sebők</i>)	9:30 Magnetic anisotropy in frustrated clusters and monolayers (<i>László Balogh</i>)
9:55 Modelling optical properties of nanoparticles in multilayer systems (<i>Tibor Gál</i>)	9:55 Magnetic correlations in an Fe monolayer on Rh(001) (<i>András Deák</i>)
10:20 Engineering of semiconductor biomarkers by means of first principles methods (<i>Bálint Somogyi</i>)	10:20 Efficient orbital dependent STM simulation model (<i>Gábor Mándi</i>)
10:45 First simulational and experimental test of a new SiPM based PET detector module (<i>Judit Lantos</i>)	10:45 Study on the applicability of thorium as fuel in Generation IV reactors (<i>Hunor György</i>)
11:10 Characterization of PET detector modules using UV excitation (<i>Balázs Játékos</i>)	11:10 LUNCH BREAK
11:35 LUNCH BREAK	

Session A. Room: R. building R215 Chairman: Csaba Sükösd	Session B Room: R building R214 Chairman: Miklós Csontos
13:00 CFD analysis of flow field in L-STAR facility <i>(Gábor Matulik)</i> 13:25 Radiation shielding calculations of APD camera for KSTAR tokamak <i>(Gábor Náfrádi)</i> 13:50 Measurements with the final KSTAR BES diagnostic system <i>(Máté Lampert)</i> 14:15 Fast ion loss measurements at the ASDEX Upgrade tokamak <i>(Nóra Lazányi)</i> 14:40 The efficiency of the Radosys MN Series automatic micronucleus counter software and the concepts of further development <i>(Timea Hülber)</i> 15:05 Dosimetric comparison of different techniques in external accelerated partial breast irradiation <i>(Gábor Stelczer)</i> 15:30 Respiratory gated CT imaging and radiotherapy at the National Institute of Oncology - technical aspects <i>(Tamás Pócza)</i> 15:55 CLOSING	13:00 Precursor configurations and post-rupture evolution of single-molecule junctions revealed by correlation analysis <i>(Zoltán Balogh)</i> 13:25 Zero bias anomalies in single-atom contacts <i>(László Pósa)</i> 13:50 Magneto-optical diagnosis of malaria <i>(Ádám Butykai)</i> 14:15 Engineering InAs NW based Cooper pair splitter devices <i>(Gergő Fülöp)</i> 14:40 Detecting split Cooper pairs at the single electron level <i>(Zoltán Scherübl)</i> 15:05 Dosimetrical effects of different source arrangements in permanent prostate brachytherapy <i>(András Herein)</i> 15:30 CLOSING