

23rd ANNUAL SYMPOSIUM OF THE HELLENIC NUCLEAR PHYSICS SOCIETY (HNPS – 2014)

Jun 20 – 21, 2014, Aristotle University of Thessaloniki, Greece.

FRIDAY 20 / 6 / 2014			
08:15 – 08:45	REGISTRATION		
08:45 – 09:00	Welcome addresses (S. Pavlides, Dean of Faculty of Sciences; G. Kitis, Vice-President of Physics Department)		
TIME	Speaker	Affiliation	Title
SESSION I	Chair: T. Kosmas	UOI	
09:00 – 09:10	T. Kosmas	UOI	Introductory presentation of Dr. K. Langanke
09:10 – 09:40	K. Langanke	GSI	Opportunities at the Facility for Antiproton and Ion Research in GSI Darmstadt (<i>invited talk</i>)
09:40 – 10:00	M. Veselsky	ASB	Nuclear physics at the Institute of Physics of SASc in Bratislava
10:00 – 10:30	S. Harissopoulos	NCSR	CALIBRA: A Research Infrastructure proposal for the National Roadmap
10:30 – 11:00	COFFEE BREAK		
SESSION II	Chair : S. Harissopoulos	NCSR	
11:00 – 11:20	M. Zamani - Valasiadou	AUTH	Super Heavy Elements –SHE
11:20 – 11:35	M. Diakaki	NTUA	Measurement of the $^{237}\text{Np}(n,f)$ cross section with the FIC detector at the CERN n_TOF facility
11:35 – 11:50	A. Tsinganis	NTUA	Measurement of the $^{242}\text{Pu}(n,f)$ cross-section at the CERN n_TOF facility
11:50 – 12:05	N. Vonta	UOA	Microscopic Calculations of Low and Medium Energy Fission with the CoMD Model
12:05 – 12:20	I.E. Stamatelatos	NCSR	Analysis of neutron streaming through penetrations in the JET biological shielding
12:20 – 12:35	A. Lagoyannis	NCSR	Study of the $^{10}\text{B}(p,\alpha\gamma)^7\text{Be}$ and $^{10}\text{B}(p,p'\gamma)^{10}\text{B}$ reactions for PIGE purposes
12:35 – 12:50	N. Patronis	UOI	Neutron reaction studies in the rare earth region: First results for the $^{162}\text{Er}(n,2n)^{161}\text{Er}$ physics case
12:50 – 13:05	A. Kalamara	NTUA	Activation cross section for the (n,2n) reaction on ^{197}Au
13:05 – 13:20	V. Paneta	NTUA	The benchmarking procedure: Implementation in the case of proton backscattering
13:20 – 15:00	LIGHT LUNCH		
SESSION III	Convener: E. Florou	NCSR	
15:00 – 15:30	POSTER SESSION		
SESSION IV	Chair: A. Clouvas	AUTH	
15:30 – 15:45	C. Tsabaris	HCMR	Modelling the vertical distribution of ^{137}Cs at the deep basins of the Aegean Sea
15:45 – 16:00	M. Sotiropoulou	AUTH	Simulation of radionuclides transfer in the terrestrial environment of Greece using dosimetry models
16:00 – 16:15	D.L. Patiris	HCMR	Use of natural and artificial radionuclides in marine sedimentology study of Shatt Al-Arab estuary (Persian Gulf)
16:15 – 16:30	G. Elefteriou	NTUA	Sedimentation Rates from Four Different Aquatic Environments at NE Mediterranean
16:30 – 16:45	F. Papageorgiou	UOA	Estimation of the environmental impact of phosphogypsum stockpile in Schistos waste site (Piraeus, Greece)
16:45 – 17:00	F.K. Pappa	NTUA	Radiotoxic metals concentration measurement in sediments due to gold mining activities, Chalkidiki
17:15 – 17:30	A. Clouvas	AUTH	Indoor radon in Greek workplaces
17:30 – 17:45	M. Gini	NCSR	In situ size distribution measurement of Radon decay products activity concentrations in thermal baths of Ikaria
17:45 – 18:00	C. Potiriadis	GAEC	Localization and Identification of Gamma Ray Sources Using Pixelated CdTe Detectors
18:00 – 18:30	COFFEE BREAK		
ASSEMBLY	Chair: R. Vlastou	NTUA	
18:30 – 20:30	HNPS General Assembly & Elections (HNPS members only)		
21:00	SYMPOSIUM DINNER		

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SATURDAY 21 / 6 / 2014

TIME	Speaker	Affiliation	Title
SESSION V	Chair: E. Mavrommatis	UOA	
09:00 – 09:15	C. Moustakidis	AUTH	Neutron star structure and collective excitations of finite nuclei
09:15 – 09:30	M.C. Papazoglou	AUTH	Symmetry energy effects on isovector properties of neutron rich nuclei with Thomas-Fermi approach
09:30 – 09:45	D.K. Papoulias	UOI	Nuclear study of the exotic neutrino interactions
09:45 – 10:00	P.G. Giannaka	UOI	The role of e^- -capture in neutrino-nucleosynthesis
10:00 – 10:15	K. Valasi	NCSR	The response of an autonomous underwater telescope to high energy neutrinos for the observation of GRBs
10:15 – 10:30	G. Provatas	NCSR	Systematic cross section measurements of (α, γ) reactions for astrophysics
10:30 – 10:45	V. Foteinou	NCSR	Proton capture reactions in medium-heavy nuclei relevant to p-process nucleosynthesis
10:45 – 11:00	A. Psaltis	UOA	First cross-section measurements of the $^{112}\text{Cd}(p, \gamma)^{113}\text{In}^*$ reaction at astrophysical energies
11:00 – 11:30	COFFEE BREAK		
SESSION VI	Chair: I. Stamatelatos	NCSR	
11:30 – 11:45	I.M. Tsodoulos	UOI	Use of the OSLuminescence Dating and X-Ray Fluorescence Spectrometry Methods as Tools in Paleoseismolog
11:45 – 12:00	E. Vagena	AUTH	Measurements and Monte Carlo simulations of neutron production at a medical accelerator
12:00 – 12:15	M. Zioga	UOA	A Compton Camera for Medical Applications
12:15 – 12:30	A.N. Raspomanikis	UOA	Time Filtering and Image Detection Efficiency in the Time Resolved Optical Tomography
12:30	CLOSING OF THE SYMPOSIUM		

Posters to be display at the POSTER SESSION

Poster No	1 st author name	Affiliation	Title
No 1	A. Stamatopoulos	NTUA	Benchmarking the proton elastic scattering cross sections on ^{19}F and ^{nat}B using $\Delta E/E$ silicon telescopes
No 2	K. Preketes-Sigalas	NCSR	Study of the $^{11}\text{B}(p, p'\gamma)^{11}\text{B}$ reaction for PIGE applications
No 3	Z. Kotsina	NCSR	Rate Theory Analysis of Point Defect Migration in Irradiated Fe-Cr alloys
No 4	E.M. Asimakopoulou	UOA	Incorporation of Ion Post Stripper in the APAPES Experimental Setup
No 5	E.G. Androulakaki	NTUA	Spectrum analysis based on Monte Carlo simulations for <i>in situ</i> γ -ray measurements in the marine environment
No 6	A. Kanellakopoulos	UOA	HDA input lens voltages optimization using SIMION
No 7	V. Lagaki	UOA	A new γ -spectroscopy station at the University of Athens
No 8	I.E. Stamatelatos	NCSR	Large Sample Neutron Activation Analysis of Ceramic Matrix Composites
No 9	M. Kapnisti	AUTH	Adsorption of ^{152}Eu from aqueous solutions using amorphous Titanium Phosphates
No 10	N. Marosi	NTUA	External dose estimations from natural radioactivity and ^{137}Cs in marine organisms using the RESRAD-BIOTA tool.
No 11	H. Papaefthymiou	UOP	Activity concentrations of natural radionuclides and ^{137}Cs in marine sediments from Amvrakikos Gulf
No 12	N. Evageliou	CEA/CNRS	Validating Global Models Using the Fukushima Nuclear Power Plant Accident: Japanese, Greek and global networks
No 13	K.C. Stamoulis	UOI	Use of everyday materials in retrospective nuclear accident dosimetry
No 14	A. Tsilimidou	UOA	TETRA-SPECT: A Four-Head Rotating System for Mammography