

24th Annual Symposium of the Hellenic Nuclear Physics Society (HNPS 2015)

May 22-23, 2015, University of Ioannina, Greece

Friday 22.05.2015

08.30 - 09.00 Registration
09.00 - 09.15 Welcome Speeches

Time	Speaker	Affiliation	Title
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Session I - Chair: R. Vlastou

09.15 - 10.00	F. Käppeler	KIT	Neutron capture data for unstable nuclei- Astrophysical quests and experimental challenges
10.00 - 10.15	M. Axiotis	NCSR	New Instruments for Nuclear Astrophysics and Applications
10.15 - 10.30	V. Foteinou	NCSR	Study of capture reactions in inverse kinematics relevant to nuclear astrophysics
10.30 - 10.45	A. Tsinganis	NTUA, CERN	The fission programme at the CERN n_TOF facility
10.45 - 11.00	A. Stamatopoulos	NTUA	The ²⁴⁰ Pu(n,f) Cross Section Measurement at CERN's n_TOF facility
11.00 - 11.15	Z. Eleme	UOI	Determination of the Neutron Beam Spatial Profile at n_TOF EAR-2 using the CR-39 Track Detectors
11.15 - 11.45	COFFEE BREAK		

Session II - Chair: M. Kokkoris

11.45 - 12.00	R. Vlastou	NTUA	Neutron Beam Characterization at the Athens Tandem Accelerator NCSR "Demokritos"
12.00 - 12.15	P. Grigoriadou	UOI	CONY - COmputer code for Neutron Yield calculations: The ⁷ Li(p,n) ⁷ Be and ³ H(d,n) ⁴ He reactions.
12.15 - 12.30	A. Kalamara	NTUA	Activation cross section of the (n,2n) reaction on Hf isotopes
12.30 - 12.45	T.J. Mertzimekis	UOA	The UoA online database for nuclear electromagnetic moments data: Status and perspectives
12.45 - 13.00	I. Savvidis	AUTH	A Prospect to Nuclear Reactor Neutrino Detection via the Coherent Scattering with the Spherical Proportional Counter

13.00 - 15.00 LUNCH BREAK / POSTER SESSION

Session III - Chair: I. Savvidis

15.00 - 15.15	M. Kokkoris	NTUA	On the Validation of Charged-Particle Differential Cross-Section Data at Low Energies
15.15 - 15.30	I.E. Stamatelatos	NCSR	Preanalysis of Neutron Activation Measurements in Shielding Penetrations at JET
15.30 - 15.45	P. Koseoglou	IKP-TUD	Neutron spectrum determination of a sub-critical nuclear reactor by multi-disc neutron activation technique
15.45 - 16.00	A. Dimitriou	UOC, NCSR	Atomic Physics at the 5MV Tandem at Demokritos: the UoC APAPES project
16.00 - 16.15	V. Paneta	NTUA, NCSR	Theoretical investigation of the ¹⁹ F(p,p0) differential cross section up to Ep=2.3 MeV
16.15 - 16.30	T.S. Kosmas	UOI	Modelling astrophysical and laboratory neutrinos: Simulated signals for space and Earth detectors
16.30 - 16.45	V. Prassa	UOZ	High-K isomers in transactinide nuclei close to N=162
16.45 - 17.15	COFFEE BREAK		

Session III - Chair: H. Florou

17.15 - 17.30	A. Clouvas	AUTH	Radon migration in soil and its relation to terrestrial gamma radiation
17.30 - 17.45	C. Tsabaris	HCMR	Preliminary analysis of in-situ radioactivity measurements in the south Caspian Sea
17.45 - 18.00	F.K. Pappa	HCMR, NTUA	Temporal variation of ¹³⁷ Cs profiles in Lemnos deep basin, North Aegean Sea, Greece
18.00 - 18.15	E.G. Androulakaki	HCMR, NTUA	Monte Carlo based full spectrum analysis of NaI(Tl) spectra acquired in the marine environment

18.30 - 20.00 HNPS GENERAL ASSEMBLY

21.00 : CONFERENCE DINNER

Saturday 23.05.2015

Time	Speaker	Affiliation	Title
Session V – Chair: I. E. Stamatelatos			
10.00 – 10.15	J. Kalef-Ezra	UOI	The rebirth of radiation therapy with kV X-rays
10.15 – 10.30	H. Florou	NCSR	Integrating the radiological impact assessment in all life organization levels by an innovative tool based on nuclear applications and cytogenetic observations
10.30 – 10.45	E. Katsarou	UOI	Dose Distribution near Inhomogeneities
10.45 – 11.00	J. Strologas	UOI	C-SPECT, a novel cardiac single-photon emission computed tomography system
11.00 – 11.30	COFFEE BREAK		

Session IV – Chair: T.S. Kosmas

11.30 – 11.45	Ch.C. Moustakidis	AUTH	R-mode constraints from neutron star equation of state
11.45 – 12.00	T. Gaitanos	AUTH, UOG	Equation of State with Momentum Dependent Constraints
12.00 – 12.15	D.K. Papoulias	UOI	Probing electromagnetic neutrino properties within the non-standard neutrino nucleus interactions
12.15 – 12.30	L.C. Kazantzidis	UOI	Simulation of neutrino emission in hadronic microquasar jets
12.30 – 12.45	E.-D. S. Paspaliaris	UOI	The role of magnetic fields in the formation and propagation of hadronic microquasar jets
12.45 – 13.00	F. K. Anagnostopoulos	UOI	Development of numerical tools for phenomenological description of neutrino emission from microquasars

HNPS 2015 CLOSING

POSTERS	First Author	Affiliation	Title
P01	G. Eleftheriou	NTUA, HCMR	Model exercise of radionuclides' deposition on Gulf Thermaikos and its catchment
P02	I. E. Stamatelatos	NCSR	Bremsstrahlung Spectra Characterization by Photo-Activation: Preliminary Results
P03	S. Doukas	UOI	Determination of the effective solid angle of the $1s2s2p^4P$ metastable Auger decay in fast ion-atom collisions using Simion 8.1 in a Monte-Carlo type simulation
P04	G. Marangouli	NTUA	Computational study of the neutron flux produced by the ${}^2H(d,n){}^3He$
P05	E. Batziou	UOA	Modeling radiative proton-capture reactions in mid-heavy nuclei
P06	A. Karailias	UOA	The Athens Mobile γ -Spectrometry System (AMESOS)
P07	I.M. Tsodoulos	UOI	Analysis of uncertainties associated with different factors used to determine the age of sediments with the Optically Stimulated Luminescence method
P08	M. Alexandropoulou	UOI	A preliminary study of mosses as biomonitors of ${}^{137}Cs$ activity in the air of Ioannina city
P09	E. Mitsi	UOA	RICOCHET: A quick-and-dirty approach to analyze μ -XRF synchrotron data using open-source utilities
P10	V. Michalopoulou – Petropoulou	HCMR, NTUA	Measurement of radionuclides and heavy metals concentration in surface sediments from the coastal zone of Lavreotiki peninsula
P11	N. Lagopati	UOI, UOA	Quantification of 3D SPECT stress / rest volume differences in Myocardium Perfusion Imaging
P12	G. Provatas	NCSR	Calibration of Radiation Monitors
P13	N. Lagopati	UOI, UOA	Volume Quantification of ${}^{123}I$ -DaTSCAN Imaging for the Differentiation and Grading of Essential Tremor and Parkinsonism
P14	N. Sarlikiotis	GAEC, NCSR	MCNP model and validation of the EEAE ACCUSCAN Whole Body Counter
P15	A. Dimitriou	UOC, NCSR	Production of He-like ionic beams in both pure ground ($1s^2$) and mixed state ($1s^2, 1s2s$) with the use of Gas and Foil post-strippers for zero-degree Auger Projectile Electron Spectroscopy
P16	I. Kotopoulou	UOA	Natural Radioactivity in Marine Sediment Cores from the Shallow-sea Hydrothermal System of Milos Island, Greece
P17	V. Tsakstara	UOI	The Cobra experiment as detector of Coherent ν -nucleus scattering