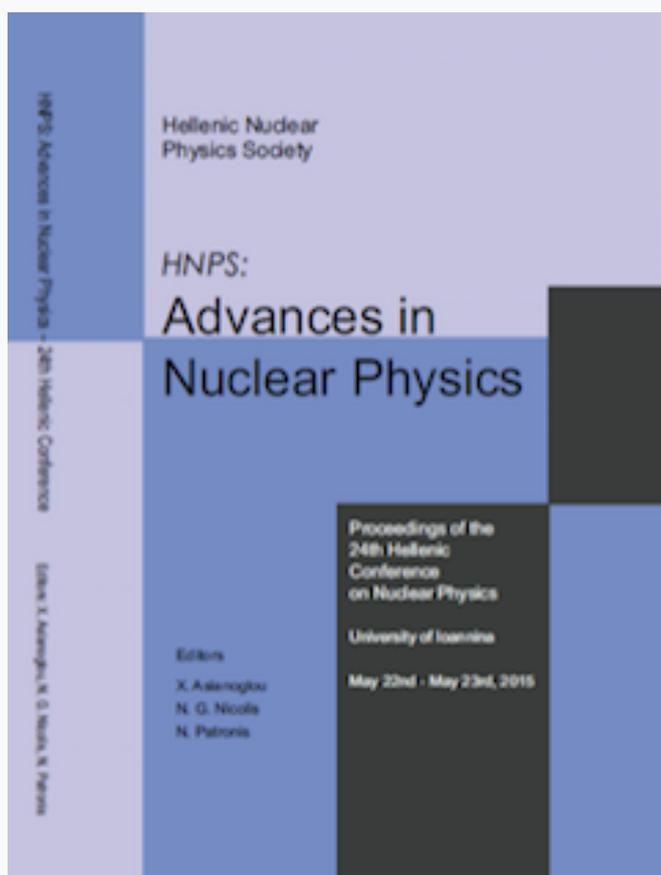


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24th Annual Symposium
HELLENIC NUCLEAR PHYSICS SOCIETY

HNPS 2015

22-23 May, 2015

Department of Physics
University of Ioannina

Nuclear Physics & Astrophysics
Nuclear Physics Applications
Nuclear Technology

“Karolos Papoulias” Conference Center

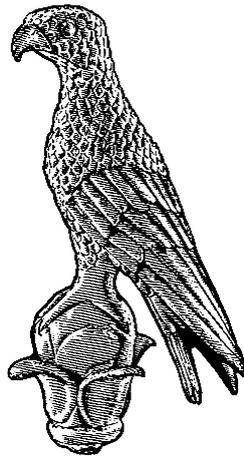
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24th SYMPOSIUM OF THE HELLENIC
NUCLEAR PHYSICS SOCIETY
Ioannina, 22-23 May 2015



From the editors:

The 24th Annual Symposium of the Hellenic Nuclear Physics Society was held at the University of Ioannina, from 22 to 23 May, 2015. It was hosted at the “karolos Papoulias” Conference Center and was organized by the Nuclear Physics Laboratory of the Physics Department of the University of Ioannina.

A wide area of topics were covered, which can be categorised in Nuclear Physics and Astrophysics, Nuclear Physics Applications, Environmental Physics, Nuclear Technology and Theoretical Nuclear Physics. The 118 registered participants had the opportunity to present their work, discuss their achievements and problems and develop new collaborations.

This volume contains the Proceedings of the conference, numbering full papers and abstracts for 32 oral presentations and 17 poster contributions presented at the conference.

Ioannina, May 2017

Xenofon Aslanoglou
Nicolaos Patronis
Nicolaos Nicolis

List of Participants

A/A	Title	Family Name	First Name	Affiliation
1	Ms	Alexandropoulou	Stamatina	U of I
2	Mr	Anagnostopoulos	Fotios	U of I
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12	Prof.	Clouvas	Alexandros	AUTH
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16	Ms	Eleme	Zinovia	U of I
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22	Ms	Georgiadou	Anastasia	U of I
23	Ms	Georvasili	Stefania	U of I
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25	Mr	Gianneios	Paris	U of I
26	Mr	Giannopoulos	Stathis	U of I
27	Mr	Girbas	Mike	U of I
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33	Prof.	Ioannidis	Konstantinos	U of I
34	Prof.	Kafef-Ezra	John	U of I
35	Mr	Kalaitzis	Panagiotis	U of I
36	Ms	Kalamara	Antigoni	NTUA
37	Mr	Kanellakopoulos	Anastasios	U of A
38	Mr	Kantre	Karim-Alexandros	NTUA
39	Ms	Kanzizoglou	Symela	U of I
40	Dr	Käppeler	Franz	KIT
41	Ms	Karagkounh	Kwnstantina	U of I
42	Mr	Karailias	Alexis	U of A
43	Ms	Kardomateas	Kalliopi	U of I
44	Ms	Kastarou	Eleni	U of I
45	Ms	Katramada	Electra	U of I
46	Ms	Katsibra	Theodora	U of I
47	Mr	Kazantzidis	Lavrentios	U of I
48	Dr	Kokkoris	Michael	NTUA
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50	Ms	Konstantinou	Eleftheria	U of I
51	Mr	Koseoglou	Pavlos	IKP TU
52	Ms	Kosma	Thomai	U of I
53	Prof.	Kosmas	Theocharis	U of I

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55	Mr	kyriopoulos	Fotis	U of I
56	Ms	Lagaki	Varvara	U of A
57	Dr	Lagopati	Nefeli	U of I
58	Ms	Levidioti	Argyro	NTUA
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60	Ms	Manoli	Paraskevi	U of I
61	Ms	Marangouli	Georgia	NTUA
62	Mr	Melios	Vasilios	U of I
63	Prof.	Mertzimekis	Theo J.	U of A
64	Ms	Michalopoulou	Veatriki	NTUA
65	Ms	Mitsi	Eleni	U of A
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67	Mr	Nakis	Giorgos	U of I
68	Prof.	Nicolis	Nikolaos	U of I
69	Mr	Ntagiantas	Sevastianos	U of I
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71	Ms	Palaiologou	Athanasia	U of I
72	Mr	Panagiotoulas	Lazaros	U of I
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74	Dr	Papachristodoulou	Christina	U of I
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79	Dr	Patiris	Dionisis	HCMR
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83	Prof.	Petropoulos	Nick	NTUA
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94	Dr	Sinatkas	Ioannis	TEI "K"
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97	Dr	Stamatelatos	Ion	NCSR"D"
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100	Mr	Stavropoulos	Leonardos	U of A
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102	Prof.	Strologas	John	U of I
103	Mr	Symeonidis	Christos	U of I
104	Mr	Trachiotis	Panagiotis	U of I
105	Mr	Tringas	Georgios	U of I
106	Dr	Tsabaris	Christos	HCMR
107	Dr	Tsinganis	Andreas	NTUA
108	Dr	Tsodoulos	Ioannis	U of I
109	Mr	Tsologiannis	Antonis	U of I

110	Mr	Venikoudis	Stavros	U of I
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115	Ms	Zaverdenou	Mariana	U of I
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118	Ms	Zyrioliou	Aikaterini	U of I

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

Friday 22.05.2015

08.30 – 09.00 Registration
09.00 - 09.15 Welcome Speeches

TIME	SPEAKER	AFFILIATION	TITLE
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. Kafef-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

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