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HNPS2018

27th Annual Symposium
Hellenic Nuclear Physics Society



8-9 June 2018

National and Kapodistrian University of Athens
Amphitheater "*Aristotelis*" • Department of Physics



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
Εθνικόν και Καποδιστριακόν
Πανεπιστήμιον Αθηνών
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HNPS2018

8 and 9 June 2018

National and Kapodistrian
University of Athens

Department of Physics
Amphitheater “Aristotelis”

Organizing Committee

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Georgios A. Souliotis

Efstathios Stiliaris

HNPS2018 - The 27th Annual Symposium of the Hellenic Nuclear Physics Society

DAY 1 - FRIDAY 08 June 2018

08'00 - 08'30 Registration

08'30 - 08'45 Welcome Speeches

Session I

Chair: Dr. Sotirios Harissopoulos

08'45 - 09'00 A. Bonasera

Bose-Einstein Condensation, Fermionic Quenching and Efimov States From Heavy-Ion Collisions

09'00 - 09'30 D. Bonatsos

Particle-hole symmetry breaking due to Pauli blocking

09'30 - 09'45 I. Assimakis

Magic numbers for shape coexistence

09'45 - 10'00 D. Papoulias

Constraining new physics from the first observation of coherent elastic neutrino-nucleus scattering

10'00 - 10'15 N. Nicolis

Spallation of ^{56}Fe by 1 GeV protons

Coffee Break (30')

Session II

Chair: Dr. Dionysios Bonatsos

10'45 - 11'00 S. Harissopoulos

2018, 55 years of nuclear physics experiments in Greece and 30 years of nuclear astrophysics at the Tandem accelerator of Demokritos

11'00 - 11'30 Yu-Gang Ma

Viscosity of nuclear matter

11'30 - 11'45 H. Rahangdale

Branching Ratio measurement in ^{23}Ne Beta Decay

11'45 - 12'00 P. Koseoglou

Phase transition at $N=90$: structural properties of ^{148}Ce

12'00 - 12'15 A. Khaliel

Nuclear magnetic moment studies of short-lived excited states at the edge of the island of inversion

12'15 - 12'30 J. Klimo

Direct measurement of fission barrier heights of unstable heavy nuclei at ISOL facilities

12'30 - 13'30 Presentations by MIRION representatives (Coordinator: Dr. Christos Tsabaris)

13'30 - 15'00

POSTER SESSION - Chair: Assoc. Prof. Xenophon Aslanoglou

Lunch Break

Session III

Chair: Assoc. Prof. Stylianos Stoulos

15'00 - 15'15 C. Tsabaris

An in-situ method for mapping radioactivity at beach sands using the mobile gamma-ray spectrometry

15'15 - 15'30 A. Kalaitzis

U-series geochronology of fossil bones using γ -spectrometry in comparison to ^{14}C dating results

15'30 - 15'45 F.K. Pappa

Application of radio-dating methods in marine areas of Greece

15'45 - 16'00 C. Betsou

Heavy metals and radionuclides concentrations in mosses from the region of Northern Greece

16'00 - 16'15 D. Patiris

Raindrop "age" estimation by in-situ, continuous monitoring of atmospheric radon progenies

Coffee Break (30')

Session IV

Chair: Assoc. Prof. Michael Kokkoris

16'45 - 17'00 M. Constantinou

The proton spin puzzle from Lattice QCD

17'00 - 17'15 A. Gezerlis

Strongly interacting nucleons: from few to many

17'15 - 17'30 P. Ganoti

Light flavour hadron and inclusive charged particle p_T -spectra measured with the ALICE experiment at CERN

17'30 - 17'45 P. Kyratzis

Study and Detection of Relativistic Solar Neutrons at Ground level with the Spherical Proportional Counter

17'45 - 18'00 I. Kaissas

Results of efficiency, accuracy, spatial resolution of a coded aperture imaging system

Short Break (15')

18'15 - 20'30 HNPS General Assembly - Elections

DINNER

DAY 2 - SATURDAY 09 June 2018

Session V

Chair: Prof. Aldo Bonasera

09'00 - 09'15	T. Gaitanos	<i>In-Medium Strangeness Production and hyperon-potentials</i>
09'15 - 09'30	S. Karampagia	<i>Nuclear Shell Model and Quantum Phase Transitions</i>
09'30 - 09'45	A. Martinou	<i>Shape Coexistence</i>
09'45 - 10'00	P. Papakonstantinou	<i>KIDS functional for applications in homogeneous matter and finite nuclei</i>
10'00 - 10'15	A. Gilho	<i>Nuclear Energy Density Functional KIDS and Mass-Radius Relation of Neutron Stars</i>

Coffee Break (30')

Session VI

Chair: Prof. Rosa Vlastou

10'45 - 11'00	C. Moustakidis	<i>Constraints on the inner boundary of a neutron star crust with applications on slow rotating neutron stars</i>
11'00 - 11'15	S. Nikas	<i>Contributions of high Ye ejecta of neutron star mergers in the r-process nucleosynthesis</i>
11'15 - 11'30	I. Madesis	<i>Investigation of the C^{3+} KLL spectrum obtained in collisions of $6\text{-}15\text{ MeV } C^{4+}$ ($1s^2$, $1s2s^3 S$) with gas targets</i>
11'45 - 12'00	A. Laoutaris	<i>Investigation of $2s2p^{3,1} P$ excitation lines in $6\text{-}18\text{ MeV } C^{4+}$ ($1s^2$, $1s2s^3 S$) collisions with gas targets</i>
12'15 - 12'30	M. Fragopoulou	<i>The sensitivity of p-MOSFET dosimeter heavy ions</i>
12'30 - 12'45	A. Mylonakis	<i>Neutron noise modelling for nuclear reactor diagnostics</i>

Short Break (15')

Session VII

Chair: Dr. Ion Stamatelatos

13'00 - 13'15	T. Vasilopoulou	<i>Overview of NCS RD Activation Experiments at JET</i>
13'15 - 13'30	P. Tsavalas	<i>Differential Cross Sections of $^9\text{Be}(d,p_0)^{10}\text{Be}$, $^9\text{Be}(d,p_1)^{10}\text{Be}$, $^9\text{Be}(d,\alpha_0)^7\text{Li}$ and $^9\text{Be}(d,\alpha_1)^7\text{Li}$ reactions</i>
13'30 - 13'45	E. Ntemou	<i>Measurement of the differential cross sections of $^9\text{Be}(d,d_0)$ at energies and angles suitable for EBS</i>
13'45 - 14'00	A. Kalamara	<i>Cross section measurement of the $^{191}\text{Ir}(n,2n)^{190}\text{Ir}$ reaction</i>
14'00 - 14'15	V. Michalopoulou	<i>Measurement of the $^{236}\text{U}(n,f)$ cross-section between 4 and 10 MeV with Micromegas detectors</i>
14'15 - 14'30	R. Vlastou	<i>Feasibility studies of (n,xn) reactions with HPGe detectors at the CERN nTOF facility</i>

CLOSING REMARKS - END OF HNPS2018

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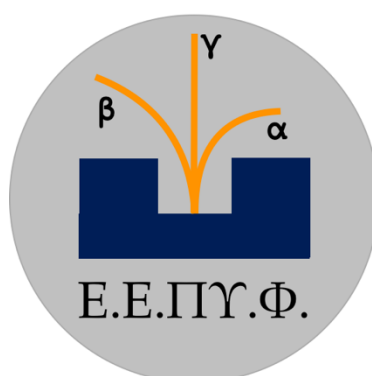


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