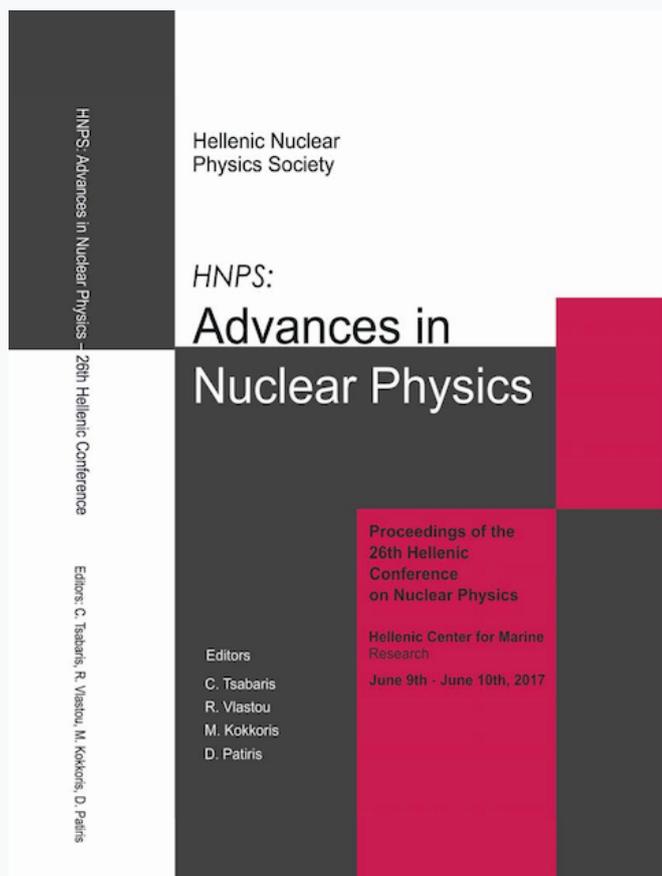


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HELLENIC NUCLEAR PHYSICS SOCIETY

PROCEEDINGS

26th HELLENIC CONFERENCE

ON

NUCLEAR PHYSICS



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9 & 10 JUNE 2017

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PREFACE

This volume contains the Proceedings of the 26th Hellenic Conference on Nuclear Physics, held in facilities of the Hellenic Centre for Marine Research of Anavyssos, Attica on the 9th and 10th of June 2017. The texts of the talks and posters are compiled as submitted by the authors.

This conference followed a series of Hellenic Nuclear Physics Conferences that started in 1990 at Thessaloniki and since then, they are yearly held at different Greek academic institutions involving Nuclear Physics. The aim of this series of conferences is to offer the local nuclear physics community the opportunity to present and discuss their latest activities in theoretical and experimental nuclear physics and applications, sometimes in collaboration with colleagues from abroad and with the use of local facilities along with facilities around the world. It is also a unique forum for presentations by young colleagues, in the early stages of their careers. For the first time of the conference series, a special session was dedicated to enterprises which develop, and commercialize state-of-the-art radiation equipment and products. Mirion Technologies, ITO Ltd and ANTISEL supported this special session with their participation and presentations.

The conference was organized under the auspices of the Hellenic Center for Marine Research (HCMR) and the National Technical University of Athens (NTUA). Grateful thanks are due to all the authorities of HCMR and particularly to the Institute of Oceanography for the financial support, the technical assistance and the facilities provided for the successful organization of the conference.

During the conference, Prof. Misaelides Panayiotis (Aristotle University of Thessaloniki) was honored by the board of HNPS for supporting the progress of Nuclear Science in Greece during his long academic career. Many of his colleagues praised his research achievements in the field of radiochemistry and radio-analytical chemistry as well as, his educational skills supervising and supporting the dissertations of many new scientists.

The assistance by several graduate and post graduate students is also warmly appreciated. Dr. Effrosini Androulakaki is gratefully acknowledged for the editorial assistance in the final preparation of the manuscripts and the excellent appearance of the present volume.

Anavyssos, Attica 2017

Christos Tsabaris
Rosa Vlastou
Michael Kokkoris
Dionisis Patiris

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26th Annual Symposium of HNPS - Symposium Program

Friday 9 June 2017

08:30 - 09:30 Registration

09:30 - 10:00 Welcome Speeches

Session I: "Environmental Radiation", Chair: Harissopulos S.

10:00 - 10:30 Krittidis NCSR Demokritos The Greek lessons from the Chernobyl nuclear accident

10:30 - 10:45 Florou H. NCSR Demokritos Marine Radioactivity in the Eastern Mediterranean: Sources, pathways and the time evolution

10:45 - 11:00 Clouvas A. AUTH Response of the Greek early warning system Reuter-Stokes ionization chambers to terrestrial and cosmic radiation evaluated in comparison with spectroscopic data and time series analysis

11:00 - 11:15 Karydas A.G. IAEA, NCSR Demokritos Possibilities for basic and applied research in X-ray spectrometry using the IAEA multi-technique instrument operated at the XRF beamline of Elettra Sincrotrone Trieste

11:15 - 11:30 Patiris D.L. HCMR Submarine pockmarks area localization using in-situ radiotracing technique in Eckernförde bay, Germany

11:30 - 12:00 Coffee Break

Session II: "Theoretical Nuclear Physics", Chair: Mavrommatis E.

12:00 - 12:15 Bonatsos D. NCSR Demokritos A New Symmetry for Heavy Nuclei: Proxy-SU(3)

12:15 - 12:30 Moustakidis Ch. AUTH Bounds on the speed of sound in dense matter, tidal polarizability and gravitational waves from neutron stars

12:30 - 12:45 Gaitanos T. AUTH Formation of fragments and hyperfragments in hadron-induced reactions

12:45 - 13:00 Martinou A. NCSR Demokritos Parameter-Independent Predictions for Nuclear Shapes, the Prolate Dominance and the Prolate-Oblate Shape Transition in the Proxy-SU(3) Model

13:00 - 13:15 Papoulias D. UOI Exploring Lepton-Flavour Violating Processes Through Neutrino Detection

13:15 - 15:00 Lunch Break

Session III: "Experimental Methods for Environmental Processes and Protection", Chair: Misaelides P.

15:00 - 15:15 Eleftheriadis K. NCSR Demokritos Lead and Uranium isotopes in Sahara Dust Aerosol observed in Athens by Alpha spectrometry

15:15 - 15:30 Karageorgis A. HCMR Surface sediment geochemistry of the North Aegean Sea: heavy metal hot spots

15:30 - 15:45 Kaberi H. HCMR Recent sedimentation rates in the Hellenic marine areas using ²¹⁰Pb and ¹³⁷Cs dating methods

15:45 - 16:00 Pagou K. HCMR The use of radioactive tracers to measure the variability of photosynthetic and bacterial productivity in Aegean marine water

16:00 - 16:15 Kalef-Ezra J. UOI Individual occupational radiation monitoring in Greece: where do we stand?

16:15 - 16:30	Pappa F.	HCMR,NTUA	Chronological records of metal contamination in an abandoned mine (Lavrio, Greece) using sediment profiles
16:30 - 16:45	Mavrokefalou G.	NCSR Demokritos	Correlation of ¹³⁷ Cs activity concentrations with MODIS Ocean Colour Data in the Aegean Sea

16:45 - 17:15 Short Break

Session IV: "Technological Advances in Radiation Detection", Chair: Tsabaris C.

17:15 - 17:30	Boulemar C. & Tischenbach E.	Mirion	Introduction to the Mirion Technologies group
17:30 - 17:45	Boulemar C. & Tischenbach E.	Mirion	Gamma detectors technologies overview & how to choose your HPGe detectors
17:45 - 18:00	Boulemar C. & Tischenbach E.	Mirion	ISOCS/LabSOCS technologies, cascade summing correction & In Situ measurements
18:00 - 18:15	Boulemar C. & Tischenbach E.	Mirion	Transition from NIM to modern MCA & applications (Spectroscopy, Compton suppression, Veto Cosmic, Low background spectroscopy)

18:15 - 20:15 HNPS Annual General Assembly

21:00 Symposium Dinner

10:00 - 18:00 Poster session I

P1	Betsou Ch.	AUTH	Natural and artificial radionuclides in moss samples from the region of Northern Greece
P2	Kyratzis D.	AUTH	Study and Detection of Solar Neutrons at ground level with the Spherical Proportional Counter
P3	Zisi G.	AUTH	Thermal and fast neutron flux studies in a subcritical neutron assembly regarding to neutron absorption cross section estimation
P4	Savvidis G.	AUTH	Study of Stopping Power and Energy Deposition of Atmospheric Muons in the Spherical Proportional Counter (SPC): Simulation Using GEANT4 and Experimental Data
P5	Konstantinidis P.	AUTH	Beta ray sensitivity of LiF dosimeters as a function of radiation temperature
P6	Katsaras P.	AUTH	Mapping of the secondary neutron dose received in 15 MeV medical linac environments
P7	Tzifas I.	AUTH	Actinides in coastal sands from Nisyros island and Northern Greece: A comparative investigation
P8	Alexandropoulou S.	UOI	A study of tritium concentrations in air humidity following a rainfall
P9	Alexandropoulou S.	UOI	Temporal and spatial variation of soil radon emanation
P10	Sotiropoulou M.	NCSR Demokritos/AUTH	Radiological Parameters Applied in Non-human Biota Dose Assessment Tools Calculated Using ERICA Tool and Site-specific Data
P11	Lykiardopoulou E.M	UOA	A comparative study of curve-fitting algorithms used for radiation detector efficiencies
P12	Zagoraios G.	UOA	Building an Analog Polarity Alternator for Electromagnets used in Nuclear Structure Experiments
P13	Andrikopoulos C.	UOA	Measurement and spectroscopic analysis of background radiation of UoA campus using NaI detector
P14	Sideris I.	UOA	A systematic study of (t,p) reactions in mid-heavy nuclei using TALYS
P15	Kanouta H.	UOI	Thin film profile measurements using RBS

26th Annual Symposium of HNPS - Symposium Program

Saturday 10 June 2017

Session I: "Experimental Nuclear Physics I", Chair: Aslanoglou X.

10:00 - 10:15	Nicolis N.	UOI	Spallation Reactions of 0.1 – 1.0 GeV protons on ²⁰⁸ Pb
10:15 - 10:30	Vagna E./Stoulos S	AUTH	Photodisintegration average cross sections of Dysprosium p-nuclei near (γ, n) reaction threshold
10:30 - 10:45	Georgali E.	UOI	Study of the ¹⁶² Er(n,2n) ¹⁶¹ Er reaction from the reaction threshold up to 19 MeV neutron beam energy
10:45 - 11:00	Eleme Z.	UOI	Neutron Beam Spatial Profile at n_TOF using CR-39 Nuclear Track Detectors
11:00 - 11:15	Savva M.	NCSR Demokritos	Novel Neutron Activation Detector for Fusion

11:15 - 11:45 Coffee break

Session II: "Applications in Energy, Environment and Cultural Heritage", Chair: Stamatelatos I.

11:45 - 12:00	Pilakoura M.	PUAS	Radioactivity measurements in granite samples using NaI(Tl) spectrometry
12:00 - 12:15	Kantarelou V.	NCSR Demokritos	Developments in 2D and 3D XRF analysis from the Micro to Macro scale imaging of Cultural Heritage artefacts
12:15 - 12:30	Ntalla E.	NCSR Demokritos	Technique for Characterization and Clearance of the Resin Waste from the Greek Research Reactor (GRR-1)
12:30 - 12:45	Mylonakis A.	NCSR Demokritos	Developing a Monte-Carlo Solver for the Simulation of the Reactor Core Dynamics
12:45 - 13:00	Tsavalas P.	NCSR Demokritos	Investigation of the JET ITER-Like Wall Be Marker Tiles
13:00 - 13:15	Kalitzis P. 13:15	AUTH	Radiological studies of zeolites application in the environment
- 13:30	Servitzoglou N. 13:30	AUTH	Natural radioactivity levels in wheat, farm soils and phosphate fertilizers

- 14:30 Lunch break

Session III: "Experimental Nuclear Physics II", Chair: Styliaris S.

14:30 - 14:45	Mertzimekis T.	UOA	Isospin symmetry as a master mason for paving nuclear structure experiments along the proton drip line
14:45 - 15:00	Vasilopoulou T.	NCSR Demokritos	Calibration of activation foils detector assembly at the 14 MeV Frascati Neutron Generator
15:00 - 15:15	Papadimitriou S.	UOA	Microscopic description of neutron-induced fission with the Constrained Molecular Dynamics (CoMD) Model: recent progress
15:15 - 15:30	Asimakopoulou A.	UOA	Systematic studies of proton-induced spallation reactions with microscopic and phenomenological models
15:30 - 15:45	Zioga M.	UOA	A High Performance DAQ System for a Free Hand Small-Field γ -Camera
15:45 - 16:00	Rapsomanikis A.	UOA	PhoSim: A Software Simulation Package Designed for Macroscopic and Microscopic Studies in the Time-Resolved Optical Tomography

16:00 - 16:30 Short Break

Session IV: "Experimental Nuclear Physics III", Chair: Souliotis G.A

16:30 - 16:45	Kokkoris M.	NTUA	CSIM – A new code for the simulation of channeling EBS/RBS spectra
16:45 - 17:00	Papageorgiou A.	UOA	Neutron-rich rare isotope production with stable and radioactive beams in the mass range $A \sim 40$ -60 at 15 MeV/nucleon
17:00 - 17:15	Stamatopoulos A.	NTUA	Measurement of the ^{234}U neutron-induced fission cross section using quasi-monoenergetic beams in the keV and MeV range and a Micromegas detector assembly
17:15 - 17:30	Kalamara A.	NTUA	Cross section measurements of the $^{197}\text{Au}(n,2n)^{196}\text{Au}$ reaction
17:30 - 17:45	Preketes-Sigalas K.	NTUA, NCSR Demokritos	PIGE related differential cross-section measurements of the $^{25}\text{Mg}(p,p'\gamma)^{25}\text{Mg}$ reaction
17:45 - 18:00	Ntemou E.	NTUA, NCSR Demokritos	Measurement of the differential cross sections of $^{6,7}\text{Li}(d,d_0)$ for Ion Beam Analysis purposes

18:00 - 18:30 Closing

10:00 - 18:00 Poster Session II

P1	Maragkos F.	HCMR/NTUA	Efficiency calibration of a medium resolution subsea detection system for sediment extended samples
P2	Tsintari P.	NTUA	Differential cross-section measurements for deuteron elastic scattering on ^{nat}N for EBS purposes
P3	Kolovi S.	NCSR Demokritos/UOA	Neutron Radiography using isotopic neutron sources: Preliminary results
P4	Krokidi K.	NTUA	Experimental and theoretical study of the $(n,2n)$ reactions on $^{174,175}\text{Hf}$ isotopes
P5	Chasapoglou S.	NTUA	Activation Cross Section Measurement of the $(n,2n)$ Reactions on Natural Ir Isotopes
P6	Lagaki V.	UOA	Detailed efficiency simulations of the GEROS spectrometer using MCNP5
P7	Theodorou A.	UOA/NCSR Demokritos	Resistivity Recovery Stages of Proton Irradiated EUROFER97 Steel
P8	Michalopoulou V.	NTUA	Measurement of the $^{234}\text{U}(n,f)$ and $^{236}\text{U}(n,f)$ cross-sections in the MeV region with MicroMegs detectors
P9	Rouni P.	NTUA	Comparison of two sample preparation techniques for XRF analysis of fly ash samples
P10	Triantou K.	NCSR Demokritos	Determining the positron lifetime of a material using Positron Annihilation Lifetime Spectroscopy
P11	Togia N.	NCSR Demokritos, UOA	Photon activation analysis of metallurgical tap smelting slag using a high energy medical accelerator: Further studies
P12	Karydas A.G.	NCSR Demokritos	Potentialities and perspectives of proton induced quasi-monochromatic X-rays in fundamental studies and analytical applications
P13	Manousakas M.	NCSR Demokritos	Nuclear analytical techniques for the chemical characterization of aerosol samples
P14	Karachristou I.	NCSR Demokritos	Release of the Radiochemical Lab at the Tandem Accelerator Building
P15	Eleftheriou G.	NOA	Radon Monitoring as Part of Multidisciplinary Study of Pre-Earthquake Anomalies in the Western Hellenic Trench