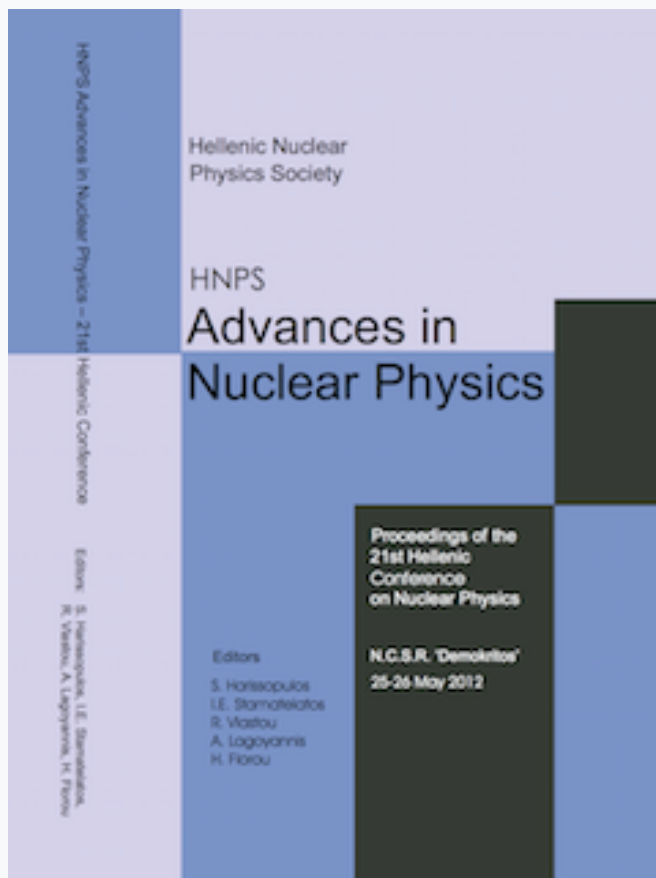


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Supplementary Material and List of Participants

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21ST ANNUAL SYMPOSIUM OF THE HELLENIC NUCLEAR PHYSICS SOCIETY
NCSR "Demokritos", Athens, Greece, May 25-26, 2012

SCIENTIFIC PROGRAM

08:30-09:00	REGISTRATION		
09:00-09:10	WELLCOME ADRESSES		
TIME	Speaker	Affiliation	Title
SESSION 1	Chair: G. Lalazissis, <i>Dept. of Physics, AUTH</i>		
09:10-09:30	E. Kossionides	<i>Tandem Lab, INPP, NCSR</i>	40 years of "beam on target" at the Tandem accelerator (invited talk)
09:30-09:50	R. Vlastou	<i>Dept. of Physics, NTUA</i>	New measurements of the $^{241}\text{Am}(n,2n)^{240}\text{Am}$ cross section
09:50-10:10	M. Zamani	<i>Dept. of Physics, AUTH</i>	Fission induced by light particles at intermediate energies
10:10-10:30	T. Alexopoulos	<i>Dept. of Physics, NTUA</i>	ATLAS New Small Wheel Upgrade: Micromegas
10:30-10:50	G. Souliotis	<i>Dept. of Chemistry, NKUA</i>	Studies of the process of N/Z equilibration in peripheral and semiperipheral heavy-ion collisions at 15 MeV/nucleon
10:50-11:10	T. Konstantinopoulos	<i>Tandem Lab, NCSR "Demokritos"</i>	In search of nuclei exhibiting E(5) critical-point symmetry features
11:10-11:30	COFFEE BREAK		
SESSION 2	Chair: H. Florou, <i>INRaSTES, NCSR "Demokritos"</i>		
11:30-12:00	P. Kritidis	<i>INRaSTES, NCSR "Demokritos"</i>	Radioactivity measurements one year after the nuclear accident in Fukushima, Japan (invited talk)
12:00-12:20	A. Ioannidou	<i>Dept. of Physics, AUTH</i>	Radionuclides from the Fukushima accident in Thessaloniki, Greece and Milano, Italy - measurements and modelling approaches
12:20-12:40	M. Sotiropoulou	<i>INRaSTES, NCSR "Demokritos"</i>	The Application of the ERICA Tool to Radioactivity Measurements for Environmental Impact Assessment: The Case Study of Fukushima ...
12:40-13:00	A. Clouvas	<i>Dept. of Electrical Engineering,</i>	Radon in Soil : Experimental measurements and Theoretical calculations
13:00-13:20	C. Tsabaris	<i>Inst. of Oceanography, HCMR</i>	Experimental Set Up for the Determination of Natural Radionuclides in Formation Waters Produced in Oil and Gas Exploration Fields
13:20-13:40	G. Eleftheriou	<i>Inst. of Oceanography, HCMR</i>	Radiological Modelling at Thermaikos Gulf
13:40-15:00	LUNCH		

SESSION 3 Convener: S. Harissopoulos, Tandem Lab, INPP, NCSR "Demokritos"

15:00-15:30 **POSTER SESSION**

SESSION 4 Chair: R. Vlastou, *Dept. of Physics, NTUA*

15:30-15:50 E. Mavrommatis *Physics Department, NKUA* β --Decay Half-Lives of Nuclei in the Crust of Neutron Stars: The ANN Model

15:50-16:10 T.S. Kosmas *Dept. of Physics, Univ. of Ioannina* Astrophysical neutrino signals and the role of nuclear structure

16:10-16:30 Ch. C. Moustakidis *Dept. of Physics, AUTH* Nuclear Equation of State Effects on the r-mode Instability of Neutron Stars

16:30-16:50 D. Petrellis *INPP, NCSR "Demokritos"* Nuclear physics aspects of the p-process

16:50-17:10 **COFFEE BREAK**

SESSION 5 Chair: M. Zamani, *Dept. of Physics, AUTH*

17:10-17:30 I. Savvidis *Dept. of Physics, AUTH* Neutron Detection via $^{14}\text{N}(n,p)^{14}\text{C}$ reaction Using the Spherical Proportional Counter

17:30-17:50 M. Kokkoris *Dept. of Physics, NTUA* Experimental study and FLUKA simulations of a prototype micromegas chamber in a mixed neutron and photon radiation field ...

17:50-18:10 T. J. Mertzimekis *Physics Department, NKUA* The Application of the High-Velocity Transient Field for the $g(21+)$ Measurement in the Neutron-rich ^{72}Zn

18:10-18:30 N. Patronis *Dept. of Physics, Univ. of Ioannina* One neutron transfer reactions around ^{68}Ni : First results from the $^{66}\text{Ni}(d,p)^{67}\text{Ni}$ experiment

18:30-19:30 **HNPS General Assembly & Elections**

SESSION 6 Chair: E. Stiliaris, *Physics Department, NKUA*

09:00-09:20 K. Mergia *INRaSTES, NCSR "Demokritos"* Research activities of NCSR "Demokritos" for the European Fusion Technology Program

09:20-09:40 Z. Kotsina *INRaSTES, NCSR "Demokritos"* Radiation damage studies of Fe-Cr alloys for Fusion applications using ion beams

09:40-10:00 A. Godelitsas *Geology Dept., NKUA* Activities of the University of Athens at SUL-X and FLUO beamlines of ANKA Synchrotron facility in Earth & Environmental Sciences

10:00-10:20 J. Kalef-Ezra *Medical School, UoI* Applications of a Novel Whole Body Counter in Radiation Protection and Human Body Composition Studies

10:20-10:40 A.-N. Rapsomanikis *Physics Department, NKUA* Phantom Experimentation on SPECT and Infrared Tomography

10:40-11:00 M. Zioga *Physics Department, NKUA* Image Reconstruction in the Positron Emission Tomography

11:00-11:30 **COFFEE BREAK**

SESSION 7 Chair: E. Mavrommatis, *Physics Department, NKUA*

11:30-11:50	N. G. Nicolis	Dept. of Physics, Univ. of Ioannina	Population of isomeric states in neutron-induced reactions on ^{197}Au
11:50-12:10	M. Diakaki	Dept. of Physics, NTUA	Characterization of actinide targets for fission cross section measurements
12:10-12:30	V. Paneta	Tandem Lab, INPP, NCSR "Demokritos"	Differential cross-section measurements for the $^7\text{Li}(p,p^0)^7\text{Li}$, $^7\text{Li}(p,\alpha^0)^4\text{He}$, $^{19}\text{F}(p,p^0)^{19}\text{F}$ and $^{19}\text{F}(p,\alpha^0)^{16}\text{O}$ reactions
12:30-12:50	V. Tsakstara	Dept. of Physics, Univ. of Ioannina	Studying nuclear responses to Supernova neutrinos
12:50-13:10	D.K. Papoulias	Dept. of Physics, Univ. of Ioannina	Lepton -flavor violating neutral-current exotic ν -nucleus processes
13:10-13:30	P.G. Giannaka	Dept. of Physics, Univ. of Ioannina	Realistic nuclear structure calculations for orbital e-capture by nuclei
13:30-15:00		LUNCH	

SESSION 8 Chair: I.Stamatelatos, *INRaSTES, NCSR "Demokritos"*

15:00-15:20	K. Eleftheriadis	INRaSTES, NCSR "Demokritos"	Radioactive tracers for long range transport of biomass burning aerosols
15:20-15:40	T. Vasilopoulou	INRaSTES, NCSR "Demokritos"	Large Sample Neutron Activation Analysis for Cultural Heritage Studies
15:40-16:00	A. Savidou	INRaSTES, NCSR "Demokritos"	Techniques Used for Clearance of Radioactive Waste
16:00-16:20	D. L. Patiris	Inst. of Oceanography, HCMR	Sediment measurement of samples from Tigris and Euphrates estuary by means of gamma-ray spectroscopy

16:30**CLOSING OF THE SYMPOSIUM**

Poster Session

Poster No.	1st author name	Affiliation	Title
P1	A.Kalamara	<i>Dept. of Physics, NTUA</i>	Monte Carlo MCNP modeling of a HPGe detector and its efficiency for extended sample geometry
P2	E. Androulakaki	<i>Dept. of Physics, NTUA</i>	In situ Gamma-Ray Measurements of Marine Sediment using Monte Carlo Simulation
P3	A. Godelitsas	<i>Geology Dept., NKUA</i>	Heavy metals and radionuclides in the northern coastal zone of Ikaria island (Greece)
P4	I. Tzifas	<i>Geology Dept., NKUA</i>	High uranium concentrations in sedimentary rocks of Epirus (NW Greece)
P5	J. Kalef-Ezra	<i>Medical School, UOI</i>	Induced Radioactivity in Medical Accelerators
P6	E. Vagenas	<i>Dept. of Physics, AUTH</i>	Measurements and Monte Carlo simulations of neutron production at a medical accelerator
P7	S. Valakis	<i>Medical School, UOI</i>	Effect of Radon Concentration in Air on the Quality of Radioactivity Measurements in the Human Body
P8	H. Florou	<i>INRaSTES, NCSR "Demokritos"</i>	Indicative Radiation Dose Rates in Selected Areas of Elevated Natural radioactivity in Greece
P9	F. Panagiotopoulos	<i>Physics Department, NKUA</i>	3D Modeling of the New Microbeam Setup at INP, NCSR "Demokritos"
P10	K. Stamou	<i>Physics Department, NKUA</i>	A Nuclear Electromagnetic Moments Database
P11	A. Kanellakopoulos	<i>Physics Department, NKUA</i>	Characterization of Nuclear Targets and Thin Films Using Ion-Beam Techniques
P12	N. Gazis	<i>Dept. of Physics, NTUA & CERN</i>	Fabrication and validation of the prototype supporting system for the CLIC Two-Beam Modules
P13	F. Noli	<i>Dept. of Chemistry, AUTH</i>	N- and O-depth distribution by NRA for the investigation of the corrosion resistance of plasma nitrided and oxidized CoCrMo alloy
P14	V. Foteinou	<i>Tandem Lab, INPP, NCSR "Demokritos"</i>	Proton capture reactions for the p-process nucleosynthesis: the case of the Mo isotopes
P15	G. Provatas	<i>Tandem Lab, INPP, NCSR "Demokritos"</i>	Systematic measurements of (alpha,gamma) reaction cross sections for astrophysics applications

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