

Program of the 33rd Annual Symposium of the Hellenic Nuclear Physics Society

	Friday 06/06/2025	
8:30	Registration	
9:00	Welcome Addresses	
Session 1 Chair: Ch. C. Moustakidis		
9:30	D. Bonatsos - Triaxial Shapes in Atomic Nuclei	
9:50	P. Vasileiou - Exploring Triaxial Deformation in Ground and γ Bands of Even-Even Er Isotopes	
10:10	K. E. Karakatsanis - Shape transitions and collective behaviour of Er and Yb isotopes based on relativistic energy density functional theory	
10:30	V. Prassa - A Bayesian Network-Based Framework for Predicting Fission Charge Yields	
10:50	Coffee break	
Session 2 Chair: M. Kokkoris		
11:10	V. Michalopoulou - Study of the ²³⁵ U(n,f) reaction in the energy region 1 to 100 eV	
11:30	N. Kyritsis - Measurement of the ²⁴³ Am(n,f) reaction cross-section at the n_TOF facility at CERN	
11:50	A. Skouloudaki - Cumulative Yield measurements from ²³⁵ U(n _{th} ,f) with the FIPPS detector	
12:10	Z. Bari - Cross Section Measurements of Neutron Induced Reactions on Mo Isotopes	
12:30	K. Kaperoni - Diamond Detector Development for Neutron Measurements in Harsh Environmental Conditions	
Poster se		
12:50	Light lunch and Poster session	
	Chair: D. Bonatsos	
14:50	Ch. C. Moustakidis - Implications of Kaon Condensation in Dense Nuclear Matter for Recent Light Compact Star Observations	
15:10	P. S. Koliogiannis - Nuclear Signatures and Stellar Observables: Bridging Terrestrial Experiments and Neutron Star Structure	
15:30	A. Kanakis-Pegios - Investigating isovector properties of finite nuclei through neutron stars	
15:50	D. Papoulias - Inelastic neutrino-nucleus scattering using a hybrid nuclear model	
16:10	Coffee break	
Session 4	1 Chair: A. Ioannidou	
16:30	M. Kokkoris - Study of Fundamental Channeling Parameters in a Diamond Crystal Using Deuterons and Combining the EBS and NRA Ion Beam Analysis Techniques	
16:50	A. Kanellakopoulos - GAMMA-MRI: A Molecular Imaging modality using anisotropic gamma emission from hyperpolarised nuclei	
17:10	G. Kumar - Advances in Radon Based Earthquake Forecasting using Sensor Networking	
17:30	Z. Maniati - Studying temporal trends of radionuclides' and chemical concentrations accumulated at the North Cretan Basin, Greece	
17:50	C. Tsabaris - The development of a detection system to inspect suspicious nuclear objects in ships's hul in the frame of the EU UnderSEC project	
18:10	Short break	
18:15	HNPS General Assembly and Elections	
20:30	Conference Dinner	

	Saturday 07/06/2025	
Session 5 Chair: G. Souliotis		
10:00	P. Koseoglou - Gamma-spectroscopy on the well-deformed ¹⁷⁸ Yb	
10:20	A. Martinou - Future perspectives of the proxy-SU(3) symmetry	
10:40	K. Gkatzogias - Multinucleon transfer mechanisms in peripheral collisions of ⁴⁰ Ar + ⁶⁴ Ni at 15 MeV/nucleon	
11:00	E. Kontogianni - Multinucleon Transfer in Peripheral Collisions of ⁶⁴ Ni on ⁶⁴ Ni at 25 MeV/nucleon	
11:20	O. Fasoula - Multinucleon Transfer Channels in 86Kr + 64Ni peripheral collisions at 15 and 25 MeV/nucleon	
11:50	Coffee break	
Session 6 Chair: P. Koseoglou		
12:20	I. Kaissas - Analysis of SMR behavior during normal operation procedures and malfunction events using IAEA's IPWR simulation	
12:40	N. G. Nicolis - Progress in Modeling Proton Reactions on Natural Silicon Targets	
13:00	M. Peoviti - Preliminary results of (p,γ) and (α,γ) reaction cross-sections on 73 Ge relevant to nuclear astrophysics	
13:20	E. Mitsi - <i>In-situ</i> observation of radiation damage saturation in ion irradiated Fe thin films	
13:40	Closing Remarks for HNPS25	

Poster contributions

 three detection angles relevant to the PIGE technique P-22 A. Lymperopoulos - Hauser-Feshbach studies of α-capture reactions in molybdenum isotopes N. Pouris - Flux Determination of the 17MeV quasi-monoenergetic Neutron Beam at NCSR 		Poster session: Friday 06/06/2025 12:50
 P-3 A. Tasiopoulou - Analysis of historical events using sediment cores and nuclear methods P-4 E. Kapsokoli - Soil Radioactivity in urban parks of Piraeus P-5 S. Zonitsas - Development and Evaluation of a new Proton Irradiation Experimental Set-up for Radiobiological Experiments using Human Cells P-6 K. Palli - Reaction mechanism for ⁸B+^{®i}Zr at the sub-Coulomb energy of 26.5 MeV P-7 E. Karpouza - Evaluation of Environmental Radioactivity in Thessaly after Storm Daniel: A Pilot Study P-8 E. Kourgiantakis - Study of Point Defects due to lon Irradiation in the CrMnFeCoNi High Entropy Alloy P-9 E. Travlou - Multinucleon transfer in peripheral collisions of ⁸⁰Kr on ²⁰⁶Pb at 25 MeV/nucleon M. Efstathiou - Ground-state lifetime measurements in Tellurium decay chains: Method and Results S. Koulouris - Elastic Scattering of Medium-Mass Heavy-lons and the Compressibility of the Nuclear Equation of State P-11 N. Giannakou - Neutron Activation Cross Section Measurement of the (n,2n) Reaction on ²⁰³Tl at 14.6 MeV P-13 K. Topalis - Investigating the nuclear structure of ^{116,118}Te P-14 Ch. Giannitsa - Investigation of α-cluster Transfer in Peripheral Collisions of ²⁰Ca (12.3 MeV/nucleon) + ²⁷Al using the MARS Spectrometer at Texas A&M P-15 S. Karachristos - Study of Deuteron-Induced Reactions in ¹⁸O in the Framework of NRA P-16 SaWnuclei P-17 A. Krakaxi - Time-of-Flight Neutron Transmission Measurements on ²⁰¹Cu at the GELINA Facility P-18 G. Apostolopoulos - OpenTRIM: an open source Monte-Carlo simulation code for ion transport in materials P-19 M. Karlatira - Measurement of the ²⁰⁴U(n,f) cross-section with Micromegas Detectors P-20 D. A. Papadopoulos - Investigation of the Pb and W isotopic chains using the confined β-soft rotor model P-21 K. Konstantinidis	P-1	·
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 P-5 S. Zonitsas - Development and Evaluation of a new Proton Irradiation Experimental Set-up for Radiobiological Experiments using Human Cells P-6 K. Palli - Reaction mechanism for ⁸B+^{nat}Zr at the sub-Coulomb energy of 26.5 MeV P-7 E. Karpouza - Evaluation of Environmental Radioactivity in Thessaly after Storm Daniel: A Pilot Study P-8 E. Karpouza - Evaluation of Environmental Radioactivity in Thessaly after Storm Daniel: A Pilot Study P-8 E. Kourgiantakis - Study of Point Defects due to lon Irradiation in the CrMnFeCoNi High Entropy Alloy P-9 E. Travlou - Multinucleon transfer in peripheral collisions of ⁸⁰Kr on ²⁰⁸Pb at 25 MeV/nucleon P-10 M. Efstathiou - Ground-state lifetime measurements in Tellurium decay chains: Method and Results P-11 S. Koulouris - Elastic Scattering of Medium-Mass Heavy-Ions and the Compressibility of the Nuclear Equation of State P-12 N. Giannakou - Neutron Activation Cross Section Measurement of the (n,2n) Reaction on ²⁰³Tl at 14.6 MeV P-13 K. Topalis - Investigating the nuclear structure of ^{116,118}Te P-14 Ch. Giannitsa - Investigating the nuclear structure of ^{116,118}Te P-15 S. Karachristos - Study of Deuteron-Induced Reactions in ¹⁸O in the Framework of NRA P-16 A. Violanti - Gamma-ray spectroscopic analysis around the N=104 mid-shell for ^{176,177}Yb and ¹⁸²W nuclei P-17 A. Karakaxi - Time-of-Flight Neutron Transmission Measurements on ^{nat}Cu at the GELINA Facility P-18 G. Apostolopoulos - OpenTRIM: an open source Monte-Carlo simulation code for ion transport in materials P-19 M. Karlatira - Measurement of the ²³⁴U(n,f) cross-section with Micromegas Detectors P-20 D. A. Papadopoulos - Investigation of the Yb and W isotopic chains using the confined β-soft rotor model P-21 K. Konstantinidis - Measurement of the differential cross se	P-3	A. Tasiopoulou - Analysis of historical events using sediment cores and nuclear methods
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 P-8 R. Kourgiantakis - Study of Point Defects due to Ion Irradiation in the CrMnFeCoNi High Entropy Alloy P-9 E. Travlou - Multinucleon transfer in peripheral collisions of ⁸⁶Kr on ²⁰⁸Pb at 25 MeV/nucleon P-10 M. Efstathiou - Ground-state lifetime measurements in Tellurium decay chains: Method and Results P-11 S. Koulouris - Elastic Scattering of Medium-Mass Heavy-Ions and the Compressibility of the Nuclear Equation of State P-12 N. Giannakou - Neutron Activation Cross Section Measurement of the (n,2n) Reaction on ²⁰³Tl at 14.6 MeV P-13 K. Topalis - Investigating the nuclear structure of ^{116,118}Te P-14 Ch. Giannitsa - Investigation of α-cluster Transfer in Peripheral Collisions of ⁴⁰Ca (12.3 MeV/nucleon) + ²⁷Al using the MARS Spectrometer at Texas A&M P-15 S. Karachristos - Study of Deuteron-Induced Reactions in ¹⁸O in the Framework of NRA P-16 ¹⁸²W nuclei P-17 A. Karakaxi - Time-of-Flight Neutron Transmission Measurements on ^{nat}Cu at the GELINA Facility P-18 G. Apostolopoulos - OpenTRIM: an open source Monte-Carlo simulation code for ion transport in materials P-19 M. Karlatira - Measurement of the ²³⁴U(n,f) cross-section with Micromegas Detectors P-20 D. A. Papadopoulos - Investigation of the Yb and W isotopic chains using the confined β-soft rotor model K. Konstantinidis - Measurement of the differential cross sections of the ²⁴Mg(p,p'γ) reaction at three detection angles relevant to the PIGE technique P-22 A. Lymperopoulos - Hauser-Feshbach studies of α-capture reactions in molybdenum isotopes P-23 N. Pouris - Flux Determination of the 17MeV quasi-monoenergetic Neutron Beam at NCSR 	P-6	K. Palli - Reaction mechanism for ⁸ B+ ^{nat} Zr at the sub-Coulomb energy of 26.5 MeV
 P-9 E. Travlou - Multinucleon transfer in peripheral collisions of 86Kr on 208Pb at 25 MeV/nucleon P-10 M. Efstathiou - Ground-state lifetime measurements in Tellurium decay chains: Method and Results P-11 S. Koulouris - Elastic Scattering of Medium-Mass Heavy-Ions and the Compressibility of the Nuclear Equation of State P-12 N. Giannakou - Neutron Activation Cross Section Measurement of the (n,2n) Reaction on 203Tl at 14.6 MeV P-13 K. Topalis - Investigating the nuclear structure of 116,118Te P-14 Ch. Giannitsa - Investigation of α-cluster Transfer in Peripheral Collisions of 40Ca (12.3 MeV/nucleon) + 27Al using the MARS Spectrometer at Texas A&M P-15 S. Karachristos - Study of Deuteron-Induced Reactions in 18O in the Framework of NRA P-16 A. Violanti - Gamma-ray spectroscopic analysis around the N=104 mid-shell for 176,177Yb and 182W nuclei P-17 A. Karakaxi - Time-of-Flight Neutron Transmission Measurements on 181 Cu at the GELINA Facility P-18 G. Apostolopoulos - OpenTRIM: an open source Monte-Carlo simulation code for ion transport in materials P-19 M. Karlatira - Measurement of the 234U(n,f) cross-section with Micromegas Detectors P-20 D. A. Papadopoulos - Investigation of the Yb and W isotopic chains using the confined β-soft rotor model P-21 K. Konstantinidis - Measurement of the differential cross sections of the 24Mg(p,p'y) reaction at three detection angles relevant to the PIGE technique P-22 A. Lymperopoulos - Hauser-Feshbach studies of α-capture reactions in molybdenum isotopes P-23 N. Pouris - Flux Determination of the 17MeV quasi-monoenergetic Neutron Beam at NCSR 	P-7	
 P-10 M. Efstathiou - Ground-state lifetime measurements in Tellurium decay chains: Method and Results P-11 S. Koulouris - Elastic Scattering of Medium-Mass Heavy-Ions and the Compressibility of the Nuclear Equation of State P-12 N. Giannakou - Neutron Activation Cross Section Measurement of the (n,2n) Reaction on ²⁰³Tl at 14.6 MeV P-13 K. Topalis - Investigating the nuclear structure of ^{116,118}Te P-14 Ch. Giannitsa - Investigation of α-cluster Transfer in Peripheral Collisions of ⁴⁰Ca (12.3 MeV/nucleon) + ²⁷Al using the MARS Spectrometer at Texas A&M P-15 S. Karachristos - Study of Deuteron-Induced Reactions in ¹⁸O in the Framework of NRA P-16 A. Violanti - Gamma-ray spectroscopic analysis around the N=104 mid-shell for ^{176,177}Yb and ¹⁸²W nuclei P-17 A. Karakaxi - Time-of-Flight Neutron Transmission Measurements on ^{nat}Cu at the GELINA Facility G. Apostolopoulos - OpenTRIM: an open source Monte-Carlo simulation code for ion transport in materials P-19 M. Karlatira - Measurement of the ²³⁴U(n,f) cross-section with Micromegas Detectors P-20 D. A. Papadopoulos - Investigation of the Yb and W isotopic chains using the confined β-soft rotor model K. Konstantinidis - Measurement of the differential cross sections of the ²⁴Mg(p,p'y) reaction at three detection angles relevant to the PIGE technique P-22 A. Lymperopoulos - Hauser-Feshbach studies of α-capture reactions in molybdenum isotopes P-23 N. Pouris - Flux Determination of the 17MeV quasi-monoenergetic Neutron Beam at NCSR 	P-8	
 P-10 Results P-11 S. Koulouris - Elastic Scattering of Medium-Mass Heavy-Ions and the Compressibility of the Nuclear Equation of State P-12 N. Giannakou - Neutron Activation Cross Section Measurement of the (n,2n) Reaction on ²⁰³Tl at 14.6 MeV P-13 K. Topalis - Investigating the nuclear structure of ^{116,118}Te P-14 Ch. Giannitsa - Investigation of α-cluster Transfer in Peripheral Collisions of ⁴⁰Ca (12.3 MeV/nucleon) + ²⁷Al using the MARS Spectrometer at Texas A&M P-15 S. Karachristos - Study of Deuteron-Induced Reactions in ¹⁸O in the Framework of NRA P-16 A. Violanti - Gamma-ray spectroscopic analysis around the N=104 mid-shell for ^{176,177}Yb and ¹⁸²W nuclei P-17 A. Karakaxi - Time-of-Flight Neutron Transmission Measurements on ^{nat}Cu at the GELINA Facility P-18 G. Apostolopoulos - OpenTRIM: an open source Monte-Carlo simulation code for ion transport in materials P-19 M. Karlatira - Measurement of the ²³⁴U(n,f) cross-section with Micromegas Detectors P-20 D. A. Papadopoulos - Investigation of the Yb and W isotopic chains using the confined β-soft rotor model P-21 K. Konstantinidis - Measurement of the differential cross sections of the ²⁴Mg(p,p'y) reaction at three detection angles relevant to the PIGE technique P-22 A. Lymperopoulos - Hauser-Feshbach studies of α-capture reactions in molybdenum isotopes P-23 N. Pouris - Flux Determination of the 17MeV quasi-monoenergetic Neutron Beam at NCSR 	P-9	E. Travlou - Multinucleon transfer in peripheral collisions of 86Kr on 208Pb at 25 MeV/nucleon
 P-11 Nuclear Equation of State P-12 N. Giannakou - Neutron Activation Cross Section Measurement of the (n,2n) Reaction on ²⁰³Tl at 14.6 MeV P-13 K. Topalis - Investigating the nuclear structure of ^{116,118}Te P-14 Ch. Giannitsa - Investigation of α-cluster Transfer in Peripheral Collisions of ⁴⁰Ca (12.3 MeV/nucleon) + ²⁷Al using the MARS Spectrometer at Texas A&M P-15 S. Karachristos - Study of Deuteron-Induced Reactions in ¹⁸O in the Framework of NRA P-16 A. Violanti - Gamma-ray spectroscopic analysis around the N=104 mid-shell for ^{176,177}Yb and ¹⁸²W nuclei P-17 A. Karakaxi - Time-of-Flight Neutron Transmission Measurements on ^{nat}Cu at the GELINA Facility P-18 G. Apostolopoulos - OpenTRIM: an open source Monte-Carlo simulation code for ion transport in materials P-19 M. Karlatira - Measurement of the ²³⁴U(n,f) cross-section with Micromegas Detectors P-20 D. A. Papadopoulos - Investigation of the Yb and W isotopic chains using the confined β-soft rotor model P-21 K. Konstantinidis - Measurement of the differential cross sections of the ²⁴Mg(p,p'γ) reaction at three detection angles relevant to the PIGE technique P-22 A. Lymperopoulos - Hauser-Feshbach studies of α-capture reactions in molybdenum isotopes P-23 N. Pouris - Flux Determination of the 17MeV quasi-monoenergetic Neutron Beam at NCSR 	P-10	•
 p-12 at 14.6 MeV p-13 K. Topalis - Investigating the nuclear structure of ^{116,118}Te p-14 Ch. Giannitsa - Investigation of α-cluster Transfer in Peripheral Collisions of ⁴⁰Ca (12.3 MeV/nucleon) + ²⁷Al using the MARS Spectrometer at Texas A&M p-15 S. Karachristos - Study of Deuteron-Induced Reactions in ¹⁸O in the Framework of NRA p-16 A. Violanti - Gamma-ray spectroscopic analysis around the N=104 mid-shell for ^{176,177}Yb and ¹⁸²W nuclei p-17 A. Karakaxi - Time-of-Flight Neutron Transmission Measurements on ^{nat}Cu at the GELINA Facility p-18 G. Apostolopoulos - OpenTRIM: an open source Monte-Carlo simulation code for ion transport in materials p-19 M. Karlatira - Measurement of the ²³⁴U(n,f) cross-section with Micromegas Detectors p-20 D. A. Papadopoulos - Investigation of the Yb and W isotopic chains using the confined β-soft rotor model p-21 K. Konstantinidis - Measurement of the differential cross sections of the ²⁴Mg(p,p'y) reaction at three detection angles relevant to the PIGE technique p-22 A. Lymperopoulos - Hauser-Feshbach studies of α-capture reactions in molybdenum isotopes p-23 N. Pouris - Flux Determination of the 17MeV quasi-monoenergetic Neutron Beam at NCSR 	P-11	
 P-14 Ch. Giannitsa - Investigation of α-cluster Transfer in Peripheral Collisions of ⁴⁰Ca (12.3 MeV/nucleon) + ²⁷Al using the MARS Spectrometer at Texas A&M P-15 S. Karachristos - Study of Deuteron-Induced Reactions in ¹⁸O in the Framework of NRA P-16 A. Violanti - Gamma-ray spectroscopic analysis around the N=104 mid-shell for ^{176,177}Yb and ¹⁸²W nuclei P-17 A. Karakaxi - Time-of-Flight Neutron Transmission Measurements on ^{nat}Cu at the GELINA Facility P-18 G. Apostolopoulos - OpenTRIM: an open source Monte-Carlo simulation code for ion transport in materials P-19 M. Karlatira - Measurement of the ²³⁴U(n,f) cross-section with Micromegas Detectors P-20 D. A. Papadopoulos - Investigation of the Yb and W isotopic chains using the confined β-soft rotor model P-21 K. Konstantinidis - Measurement of the differential cross sections of the ²⁴Mg(p,p'γ) reaction at three detection angles relevant to the PIGE technique P-22 A. Lymperopoulos - Hauser-Feshbach studies of α-capture reactions in molybdenum isotopes P-23 N. Pouris - Flux Determination of the 17MeV quasi-monoenergetic Neutron Beam at NCSR 	P-12	•
 P-14 MeV/nucleon) + ²⁷Al using the MARS Spectrometer at Texas A&M P-15 S. Karachristos - Study of Deuteron-Induced Reactions in ¹⁸O in the Framework of NRA P-16 A. Violanti - Gamma-ray spectroscopic analysis around the N=104 mid-shell for ^{176,177}Yb and ¹⁸²W nuclei P-17 A. Karakaxi - Time-of-Flight Neutron Transmission Measurements on ^{nat}Cu at the GELINA Facility P-18 G. Apostolopoulos - OpenTRIM: an open source Monte-Carlo simulation code for ion transport in materials P-19 M. Karlatira - Measurement of the ²³⁴U(n,f) cross-section with Micromegas Detectors P-20 D. A. Papadopoulos - Investigation of the Yb and W isotopic chains using the confined β-soft rotor model P-21 K. Konstantinidis - Measurement of the differential cross sections of the ²⁴Mg(p,p'γ) reaction at three detection angles relevant to the PIGE technique P-22 A. Lymperopoulos - Hauser-Feshbach studies of α-capture reactions in molybdenum isotopes P-23 N. Pouris - Flux Determination of the 17MeV quasi-monoenergetic Neutron Beam at NCSR 	P-13	K. Topalis - Investigating the nuclear structure of 116,118Te
 P-16 A. Violanti - Gamma-ray spectroscopic analysis around the N=104 mid-shell for ^{176,177}Yb and ¹⁸²W nuclei P-17 A. Karakaxi - Time-of-Flight Neutron Transmission Measurements on ^{nat}Cu at the GELINA Facility G. Apostolopoulos - OpenTRIM: an open source Monte-Carlo simulation code for ion transport in materials P-19	P-14	
 P-16 182W nuclei P-17 A. Karakaxi - Time-of-Flight Neutron Transmission Measurements on natCu at the GELINA Facility P-18 G. Apostolopoulos - OpenTRIM: an open source Monte-Carlo simulation code for ion transport in materials P-19 M. Karlatira - Measurement of the 234U(n,f) cross-section with Micromegas Detectors D. A. Papadopoulos - Investigation of the Yb and W isotopic chains using the confined β-soft rotor model P-20 K. Konstantinidis - Measurement of the differential cross sections of the 24Mg(p,p'y) reaction at three detection angles relevant to the PIGE technique P-22 A. Lymperopoulos - Hauser-Feshbach studies of α-capture reactions in molybdenum isotopes P-23 N. Pouris - Flux Determination of the 17MeV quasi-monoenergetic Neutron Beam at NCSR 	P-15	S. Karachristos - Study of Deuteron-Induced Reactions in ¹⁸ O in the Framework of NRA
 P-17 Facility P-18 G. Apostolopoulos - OpenTRIM: an open source Monte-Carlo simulation code for ion transport in materials P-19 M. Karlatira - Measurement of the ²³⁴U(n,f) cross-section with Micromegas Detectors P-20 D. A. Papadopoulos - Investigation of the Yb and W isotopic chains using the confined β-soft rotor model P-21 K. Konstantinidis - Measurement of the differential cross sections of the ²⁴Mg(p,p'γ) reaction at three detection angles relevant to the PIGE technique P-22 A. Lymperopoulos - Hauser-Feshbach studies of α-capture reactions in molybdenum isotopes P-23 N. Pouris - Flux Determination of the 17MeV quasi-monoenergetic Neutron Beam at NCSR 	P-16	
 P-18 in materials P-19 M. Karlatira - Measurement of the ²³⁴U(n,f) cross-section with Micromegas Detectors P-20 D. A. Papadopoulos - Investigation of the Yb and W isotopic chains using the confined β-soft rotor model P-21 K. Konstantinidis - Measurement of the differential cross sections of the ²⁴Mg(p,p'γ) reaction at three detection angles relevant to the PIGE technique P-22 A. Lymperopoulos - Hauser-Feshbach studies of α-capture reactions in molybdenum isotopes P-23 N. Pouris - Flux Determination of the 17MeV quasi-monoenergetic Neutron Beam at NCSR 	P-17	
 P-20 D. A. Papadopoulos - Investigation of the Yb and W isotopic chains using the confined β-soft rotor model P-21 K. Konstantinidis - Measurement of the differential cross sections of the ²⁴Mg(p,p'γ) reaction at three detection angles relevant to the PIGE technique P-22 A. Lymperopoulos - Hauser-Feshbach studies of α-capture reactions in molybdenum isotopes N. Pouris - Flux Determination of the 17MeV quasi-monoenergetic Neutron Beam at NCSR 	P-18	
 P-20 rotor model P-21 K. Konstantinidis - Measurement of the differential cross sections of the ²⁴Mg(p,p'γ) reaction at three detection angles relevant to the PIGE technique P-22 A. Lymperopoulos - Hauser-Feshbach studies of α-capture reactions in molybdenum isotopes P-23 N. Pouris - Flux Determination of the 17MeV quasi-monoenergetic Neutron Beam at NCSR 	P-19	M. Karlatira - Measurement of the ²³⁴ U(n,f) cross-section with Micromegas Detectors
 three detection angles relevant to the PIGE technique P-22 A. Lymperopoulos - Hauser-Feshbach studies of α-capture reactions in molybdenum isotopes N. Pouris - Flux Determination of the 17MeV quasi-monoenergetic Neutron Beam at NCSR 	P-20	
N. Pouris - Flux Determination of the 17MeV quasi-monoenergetic Neutron Beam at NCSR	P-21	K. Konstantinidis - Measurement of the differential cross sections of the 24 Mg(p,p'y) reaction at three detection angles relevant to the PIGE technique
1 p. 93	P-22	A. Lymperopoulos - Hauser-Feshbach studies of α-capture reactions in molybdenum isotopes
DEMOKRITOS using the Multiple Foll Activation technique	P-23	N. Pouris - Flux Determination of the 17MeV quasi-monoenergetic Neutron Beam at NCSR "DEMOKRITOS" using the Multiple Foil Activation technique
P-24 E. Bampaloukas - Setup and calibration of in-situ gamma-ray spectrometer for marine applications	P-24	
P-25 I. Tsormpatzoglou - Characterization of BC501A Liquid Scintillator for Neutron-Gamma Discrimination using the Pulse Shape Analysis Technique	P-25	·

P-26	D. P. Nikou - Estimation of cross section for proton-induced reactions in stable Yb isotopes at
	astrophysical energies
P-27	S. K. Roumelioti - Calibration of CZT detector systems for laboratory measurement of marine
	sediment
P-28	G. Andrianopoulos - Design and operation of an Inertial Electrostatic Confinement Fusion
	Device (FUSOR)
P-29	A. Kalamara - Simulations for Optimization of Proton Dose Delivery Using the Advanced
	Markus Chamber
P-30	T. Schizas - Development and construction of an Arduino-based Geiger-Müller detector for
	radiation monitoring applications