

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	Session 1		
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			
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		
Session 3			
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			
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	
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	
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

 P.1 A. Pakou - Abnormal large reaction cross sections for weakly bound nuclei at deep sub-barrier energies P.2 M. Lizardou - Calculations of water activation in fission reactors using Monte Carlo simulations 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 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+¹⁰³Izr 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.9 E. Travlou - Multinucleon transfer in peripheral collisions of ⁸⁰Kr on ²⁰⁰Pb at 25 MeV/inucleon M. Efstathiou - Ground-state lifetime measurements in Tellurium decay chains: Method and Results P.10 K. Koulouris - Elastic Scattering of Medium-Mass Heavy-Ions and the Compressibility of the Nuclear Equation of State P.1 S. Koulouris - Elastic Scattering of Medium-Mass Heavy-Ions and the Compressibility of the Nuclear Equation of State P.1 Al 1.6 MeV P.1 K. Topalis - Investigating the nuclear structure of ^{116,116}Te Ch. Giannitsa - Investigating the nuclear structure of ^{116,116}Te Ch. Giannitsa - Investigation of α-cluster Transfer in Peripheral Collisions of ⁴⁰Ca (12.3 MeV/nucleon) + ²⁷⁰A using the MARS Spectrometer at Texas A&M P.1 A. Karakaxi - Time-of-Flight Neutron Transmission Measurements on ^{6,61}Cu at the GELINA Facility G. Apostolopoulos - OpenTRIM: an open source Monte-Carlo simulation code for ion transport in materials P.1 M. Karlatira - Measurement of the		Poster session: Friday 06/06/2025 12:50
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 P-4 E. Kapsokoli - Soil Radioactivity in urban parks of Piraeus 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 [®]B+^{ma}Zr at the sub-Coulomb energy of 26.5 MeV 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-9 E. Travlou - Multinucleon transfer in peripheral collisions of ⁶⁰Kr on ²⁰⁰Pb at 25 MeV/nucleon P-10 M. Efstathiou - Ground-state lifetime measurements in Tellurium decay chains: Method and Results S. Koulouris - Elastic Scattering of Medium-Mass Heavy-Ions and the Compressibility of the Nuclear Equation of State 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 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 A. Violanti - Gamma-ray spectroscopic analysis around the N=104 mid-shell for ^{176,177}Yb and ¹⁸²⁰W nuclei P-16 A. Karakaxi - Time-of-Flight Neutron Transmission Measurements on ¹⁸¹Cu 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 ²⁸⁴U(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 K.	P-2	_
 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+³⁰Zr 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 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 ²⁰⁰Pb at 25 MeW/nucleon M. Efstathiou - Ground-state lifetime measurements in Tellurium decay chains: Method and Results S. Koulouris - Elastic Scattering of Medium-Mass Heavy-Ions and the Compressibility of the Nuclear Equation of State P-11 N. Giannakou - Neutron Activation Cross Section Measurement of the (n,2n) Reaction on ²⁰⁰Tl at 14.6 MeV P-13 K. Topalis - Investigating the nuclear structure of ^{110,118}Te Ch. Giannitsa - Investigation of α-cluster Transfer in Peripheral Collisions of ⁴⁰Ca (12.3 MeW/nucleon) + ²⁷Al using the MARS Spectrometer at Texas A&M P-15 S. Karachristos - Study of Deuteron-Induced Reactions in ¹⁸⁰O in the Framework of NRA A. Violanti - Gamma-ray spectroscopic analysis around the N=104 mid-shell for ^{176,177}Yb and ¹⁸²W nuclei P-16 R. Karakaxi - Time-of-Flight Neutron Transmission Measurements on ⁸⁰Cu 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 ²³U(n,f) cross-section with Micromegas Detectors D. A. Papadopoulos - Investigation of the Yb and W isotopic chains using the confined β-soft roto	P-3	A. Tasiopoulou - Analysis of historical events using sediment cores and nuclear methods
 P-5 Radiobiological Experiments using Human Cells P-6 K. Palli - Reaction mechanism for ⁸B+^{max}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 R. 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 M. Efstathiou - Ground-state lifetime measurements in Tellurium decay chains: Method and Results P-10 Results 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 Starpolical Collisions of Acceptable of the National Activation Collisions of Acceptable of the National Activation Collisions of Acceptable of the National Activation Collisions of Acceptable of Acceptable of Acceptable of the National Activation Collisions of Acceptable of Accep	P-4	E. Kapsokoli - Soil Radioactivity in urban parks of Piraeus
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 P-7 E. Karpouza - Evaluation of Environmental Radioactivity in Thessaly after Storm Daniel: A Pilot Study P-8 R. 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 ²⁰⁰Pb 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 ²⁰⁰Tl 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 ¹⁹O 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 ¹⁸⁴Cu 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	P-6	
 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 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 ¹⁸⁴Cu 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 ²⁸⁴U(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-21 A. Lymperopoulos - Hauser-Feshbach studies of α-capture reactions in molybdenum isotopes P-22 A. Lymperopoulos - Hauser-Feshbach studies of α-capture reactions in molybdenum isotopes P-23 M. 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	P-7	E. Karpouza - Evaluation of Environmental Radioactivity in Thessaly after Storm Daniel: A Pilot
 P-10	P-8	
 P-10 Results P-11	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'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 "DEMOKRITOS" using the Multiple Foil Activation technique P-24 E. Bampaloukas - Setup and calibration of in-situ gamma-ray spectrometer for marine applications P-25 I. Tsormpatzoglou - Characterization of BCS01A Liquid Scintillator for Neutron-Gamma 	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 "DEMOKRITOS" using the Multiple Foil Activation technique P-24 E. Bampaloukas - Setup and calibration of in-situ gamma-ray spectrometer for marine applications P-25 I. Tsormpatzoglou - Characterization of BC501A Liquid Scintillator for Neutron-Gamma 	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 A. Violanti - Gamma-ray spectroscopic analysis around the N=104 mid-shell for ^{176,177}Yb and ¹⁸²W nuclei 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 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 "DEMOKRITOS" using the Multiple Foil Activation technique P-24 E. Bampaloukas - Setup and calibration of in-situ gamma-ray spectrometer for marine applications I. Tsormpatzoglou - Characterization of BC501A Liquid Scintillator for Neutron-Gamma 	P-12	•
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 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-10 182W nuclei P-17 	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 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 I. Tsormpatzoglou - Characterization of BC501A Liquid Scintillator for Neutron-Gamma 	P-16	
 P-18 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-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 "DEMOKRITOS" using the Multiple Foil Activation technique P-24 E. Bampaloukas - Setup and calibration of in-situ gamma-ray spectrometer for marine applications I. Tsormpatzoglou - Characterization of BC501A Liquid Scintillator for Neutron-Gamma 	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 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-25 I. Tsormpatzoglou - Characterization of BC501A Liquid Scintillator for Neutron-Gamma 	P-18	
 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 "DEMOKRITOS" using the Multiple Foil Activation technique P-24	P-19	M. Karlatira - Measurement of the ²³⁴ U(n,f) cross-section with Micromegas Detectors
 three detection angles relevant to the PIGE technique 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 "DEMOKRITOS" using the Multiple Foil Activation technique Bampaloukas - Setup and calibration of in-situ gamma-ray spectrometer for marine applications I. Tsormpatzoglou - Characterization of BC501A Liquid Scintillator for Neutron-Gamma 	P-20	
P-23 N. Pouris - Flux Determination of the 17MeV quasi-monoenergetic Neutron Beam at NCSR "DEMOKRITOS" using the Multiple Foil Activation technique E. Bampaloukas - Setup and calibration of in-situ gamma-ray spectrometer for marine applications I. Tsormpatzoglou - Characterization of BC501A Liquid Scintillator for Neutron-Gamma	P-21	
P-23 "DEMOKRITOS" using the Multiple Foil Activation technique E. Bampaloukas - Setup and calibration of in-situ gamma-ray spectrometer for marine applications I. Tsormpatzoglou - Characterization of BC501A Liquid Scintillator for Neutron-Gamma	P-22	A. Lymperopoulos - Hauser-Feshbach studies of α-capture reactions in molybdenum isotopes
applications I. Tsormpatzoglou - Characterization of BC501A Liquid Scintillator for Neutron-Gamma	P-23	·
P-25	P-24	
Discrimination using the Pulse Shape Analysis Technique	P-25	I. Tsormpatzoglou - Characterization of BC501A Liquid Scintillator for Neutron-Gamma Discrimination using the Pulse Shape Analysis Technique

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