

# Varvara Foteinou

ASSISTANT PROFESSOR · EXPERIMENTAL NUCLEAR PHYSICS

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## Education

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### Ph.D. in Experimental Nuclear Physics

June 2013

NCSR "Demokritos" & National Technical University of Athens

Thesis: Cross section measurements of proton capture reactions and Stellar Nucleosynthesis

### M.Sc. in Physics and Technological Applications

July 2010

NCSR "Demokritos" & National Technical University of Athens

Thesis: Study of the  $d + {}^6,7\text{Li}$  system in region of interest of Nuclear Reaction Analysis

### B.Sc. in Physics

July 2007

School of Applied Mathematical and Physical Sciences, National Technical University of Athens

Thesis: Absolute differential cross-section measurements of the  ${}^{10}\text{B}(d,p){}^{11}\text{B}$  and  ${}^{10}\text{B}(d,\alpha){}^8\text{Be}$  nuclear reactions at scattering angles between  $135^\circ$  and  $170^\circ$

## Academic Experience

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### Assistant Professor

November 2024 - today

University of Ioannina, Ioannina, Greece

Nuclear Physics Laboratory, Physics Department

### Senior Researcher

April 2017 - November 2024

Ruhr University Bochum, Bochum, Germany

Dynamitron Tandem Laboratory, Central Unit for Ion Beams and Radionuclides

### Post-doctoral researcher

October 2013 - August 2016

NCSR "Demokritos", Athens, Greece

Tandem Accelerator Laboratory, Institute of Nuclear and Particle Physics

## Teaching & Supervision Experience

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### Lecturer in Radiation Protection and Ion Beam Analysis block courses

2017 - 2024

Central Unit for Ion Beams and Radionuclides, Ruhr University Bochum

Radiation protection technique, Review of mathematics, Physical basics of radiation,  $\gamma$ -ray Spectroscopy, Fundamentals of the Particle-Induced X-Ray Emission (PIXE) technique

### Teaching Assistant in Laboratory Courses

2008 - 2013

Department of Physics, National Technical University of Athens

$\gamma$ -ray Spectroscopy, Study of the laws of motion, Measurement of the ratio of the specific heat constants in gasses

### Supervision of one PhD student

2022-today

Ruhr University Bochum & National Technical University of Athens

Measurement, evaluation and theoretical reproduction of differential cross sections on light elements with  ${}^3\text{He}$  beams

### Training of bachelor and master students during their thesis projects

2008-2017

NCSR "Demokritos" & National Technical University of Athens

## Research Activities

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### Nuclear Astrophysics

- Cross-section measurements of capture reactions (angular distribution measurements, angle integrated measurements, activation measurements).
- Hauser-Feshbach calculations of proton and alpha particle capture reactions.

### Ion Beam Analysis

- Measurements of differential cross sections of elastically scattered protons, deuterons and  $^3\text{He}$ -particles.
- Differential cross-section measurements of proton-, deuteron- and  $^3\text{He}$ -induced nuclear reactions.
- Measurements of differential cross sections for Particle Induced  $\gamma$ -ray Emission technique.
- R-matrix calculations.
- Application of RBS (EBS), NRA, PIXE, and PIGE techniques for material characterization.

### Neutron physics

- Cross-section measurements of (n,2n) reactions using the activation technique.

### Material modification by ion implantation

- Low-energy ion implantation (10-100 keV).
- Ion implantation using energies of a few MeV.

## Participation in Research Projects

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### **Study of $^3\text{He}$ -induced reactions and elastic scattering on light isotopes: Measurement, benchmarking and theoretical investigation of differential cross sections suitable for Ion Beam Analysis (German Research Foundation)**

2021 - today

Principal Investigator: Varvara Foteinou

Participation as: Principal Investigator

### **Development and Application of Ion Beam Techniques for Materials Irradiation and Characterization relevant to Fusion Technology (IAEA)**

2023 - 2024

Principal Investigator: Varvara Foteinou

Participation as: Principal Investigator

### **ARENA - Accelerator-based Research in Nuclear Astrophysics (ELIDEK)**

2022 - today

Principal Investigator: Sotirios Charisopoulos

Participation as: Scientific Coordinator on behalf of Ruhr University Bochum

### **Establishing a Multidisciplinary and Effective Innovation and Entrepreneurship Hub (SIEMENS)**

2015 - 2017

Principal Investigator: Sotirios Charisopoulos

Participation as: Team member

### **ORASY - Exploring the Visible and Invisible Universe with accelerators and innovative detectors (KRIPIS)**

2013 - 2015

Principal Investigator: Sotirios Charisopoulos

Participation as: Team member

### **LIBRA - Center of Excellence in Low-energy Ion-Beam Research and Applications (REGPOT)**

2009 - 2012

Principal Investigator: Sotirios Charisopoulos

Participation as: Team member

## Publications in peer-reviewed journals

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- “Study of  $^{nat}B(^3He, p)$  reactions cross sections using a novel setup for  $^3He$ -NRA micro analyses”, T. Dunatov, G. Provasas, S. Fazinić, V. Foteinou, F. Maragkos, K. Ivankovic Nizić, M. Mičetić, *Radiat. Phys. Chem.*, 226, 112298 (2025), DOI: [10.1016/j.radphyschem.2024.112298](https://doi.org/10.1016/j.radphyschem.2024.112298)
- “Differential cross-section measurements for  $^3He$ -induced reactions and elastic scattering on  $^{12}C$ ”, F. Maragkos, V. Foteinou, H.-W. Becker, M. Kokkoris, M. Mayer, G. Provasas, D. Rogalla, *Nucl. Instrum. Methods Phys. Res. B*, 556, 165517 (2024), DOI: [10.1016/j.nimb.2024.165517](https://doi.org/10.1016/j.nimb.2024.165517)
- “Weakening of olivine by hydrogen implantation: Results of nano-indentation tests and some applications to planetary materials”, Q. Jiang, S. Karato, A. Datye, S. Yang, V. Foteinou, D. Rogalla, U. Schwarz, *Icarus*, 421, 116243 (2024), DOI: [10.1016/j.icarus.2024.116243](https://doi.org/10.1016/j.icarus.2024.116243)
- “ $(p, \gamma)$  cross section measurements on Sn isotopes relevant to the p process”, S. Harissopulos, E. Vagena, A. Spyrou, M. Axiotis, Z. Kotsina, K. Tsampa, A. Lagoyannis, P. Dimitriou, H.-W. Becker, V. Foteinou, *Phys. Rev. C*, 110(1), 015803 (2024), DOI: [10.1103/PhysRevC.110.015803](https://doi.org/10.1103/PhysRevC.110.015803)
- “An experimental study of hydrogen implantation to minerals: Role of the solar wind as a source of water in terrestrial bodies”, Q. Jiang, S. Karato, T. Bissbort, V. Foteinou, *Icarus*, 411, 115958 (2024), DOI: [10.1016/j.icarus.2024.115958](https://doi.org/10.1016/j.icarus.2024.115958)
- “Differential cross-section measurements for the proton-induced alpha and deuteron reactions and elastic scattering on  $^9Be$ , suitable for Ion beam analysis applications”, F. Maragkos, V. Foteinou, M. Kokkoris, *Nucl. Instrum. Methods Phys. Res. B*, 547, 165180 (2024), DOI: [10.1016/j.nimb.2023.165180](https://doi.org/10.1016/j.nimb.2023.165180)
- “Differential cross-section measurements for the  $^9Be(^3He, ^3He_0)^9Be$  elastic scattering and the  $^9Be(^3He, p_x)^{11}B$  reactions”, V. Foteinou, F. Maragkos, H.-W. Becker, L. Hess, K. Ivanković, M. Kokkoris, M. Mayer, G. Provasas, D. Rogalla, *Nucl. Instrum. Methods Phys. Res. B*, 542, 158-175 (2023) DOI: [10.1016/j.nimb.2023.06.016](https://doi.org/10.1016/j.nimb.2023.06.016)
- “An experimental study of proton implantation in olivine”, T. Bissbort, Q. Jiang, H.-W. Becker, V. Foteinou, S. Chakraborty, *Phys. Chem. Miner.*, 50(2), 12 (2023), DOI: [10.1007/s00269-023-01234-9](https://doi.org/10.1007/s00269-023-01234-9)
- “Measurement, evaluation and benchmarking of differential cross sections for proton elastic scattering on  $^{nat}O$  in the energy range  $E=4-6$  MeV, suitable for EBS”, M. Kokkoris, K. Bosbotinis, V. Foteinou, A.F. Gurbich, A. Lagoyannis, F. Maragkos, N. Patronis, E. Taimpiri, A. Ziagkova, *Nucl. Instrum. Methods Phys. Res. B*, 539, 15 (2023), DOI: [10.1016/j.nimb.2023.03.014](https://doi.org/10.1016/j.nimb.2023.03.014)
- “Differential cross-section measurements and R-Matrix calculations for proton elastic scattering on  $^{nat}Mg$  in the energy range  $E_{p,lab}=2.70-4.25$  MeV, suitable for EBS”, F. Maragkos, E. Alvanou, M. Axiotis, N. Bligoura, V. Foteinou, S. Harissopulos, M. Kokkoris, A. Lagoyannis, E. Ntemou, N. Patronis, K. Preketes-Sigalas, *Nucl. Instrum. Methods Phys. Res. B*, 536, 45-54 (2023), DOI: [10.1016/j.nimb.2022.12.027](https://doi.org/10.1016/j.nimb.2022.12.027)
- “Microscopic diffusion of atomic hydrogen and water in HER catalyst  $MoS_2$ , revealed by neutron scattering”, V. Kuznetsov, L. Lu, M. Koza, D. Rogalla, V. Foteinou, H.-W. Becker, A. Nefedov, F. Traeger, P. Fouquet, *J. Phys. Chem. C*, 126(51), 21667–21680 (2022), DOI: [10.1021/acs.jpcc.2c03848](https://doi.org/10.1021/acs.jpcc.2c03848)
- “Photon echo, spectral hole burning, and optically detected magnetic resonance in  $Yb^{3+} 171: LiNbO_3$  bulk crystal and waveguides”, F. Chiossi, E. Lafitte-Houssat, K. Xia, F. Sardi, Z. Zhang, S. Welinski, P. Berger, L. Morvan, V. Foteinou, A. Ferrier, D. Serrano, R. Kolesov, J. Wrachtrup, P. Goldner, *Phys. Rev. B*, 105(18), 184115 (2022), DOI: [10.1103/PhysRevB.105.184115](https://doi.org/10.1103/PhysRevB.105.184115)
- “Cross section measurements of proton capture reactions on Sr isotopes for astrophysics applications”, S. Harissopulos, E. Vagena, P. Dimitriou, M. Axiotis, S. Galanopoulos, V. Foteinou, A. Lagoyannis, *Phys. Rev. C*, 104(2), 025804 (2021), DOI: [10.1103/PhysRevC.104.025804](https://doi.org/10.1103/PhysRevC.104.025804)
- “New measurement of the  $Sm\ 144(\alpha, \gamma)Gd\ 148$  reaction rate for the  $\gamma$  process”, P. Scholz, H. Wilsenach, H.-W. Becker, A. Blazhev, F. Heim, V. Foteinou, U. Giesen, C. Munker, D. Rogalla, P. Sprung, A. Zilges, K. Zuber, *Phys. Rev. C*, 102(4), 045811 (2020), DOI: [10.1103/PhysRevC.102.045811](https://doi.org/10.1103/PhysRevC.102.045811)
- “Cross section measurements of proton capture reactions on Mo isotopes relevant to the astrophysical p process”, V. Foteinou, M. Axiotis, S. Harissopulos, P. Dimitriou, G. Provasas, A. Lagoyannis, H.-W. Becker, D. Rogalla, A. Zilges, A. Schre-ckling, A. Enders, *EPJ A*, 55(5), 67 (2019), DOI: [10.1140/epja/i2019-12738-x](https://doi.org/10.1140/epja/i2019-12738-x)
- “The  $(n, 2n)$  reaction for the lightest stable erbium isotope  $Er\ 162$  from reaction threshold up to 19 MeV”, E. Georgali, Z. Eleme, N. Patronis, X. Aslanoglou, M. Axiotis, M. Diakaki, V. Foteinou, S. Harissopulos, A. Kalamara, M. Kokkoris, A. Lagoyannis, N.G. Nicolis, G. Provasas, A. Stamatopoulos, S. Stoulos, A. Tsinganis, E. Vagena, R. Vlastou, S.M. Vogiatzi, *Phys. Rev. C*, 98(1), 014622 (2018), DOI: [10.1103/PhysRevC.98.014622](https://doi.org/10.1103/PhysRevC.98.014622)

- “Cross section measurements of proton capture reactions on Se isotopes relevant to the astrophysical  $p$  process”, V. Foteinou, S. Harissopoulos, M. Axiotis, A. Lagoyannis, G. Provas, A. Spyrou, G. Perdikakis, Ch. Zarkadas, P. Demetriou, *Phys. Rev. C*, 97(3), 035806 (2018), DOI: [10.1103/PhysRevC.97.035806](https://doi.org/10.1103/PhysRevC.97.035806)
- “Differential cross-section measurements of the elastic  ${}^7\text{Li}(d,d_0)$  scattering for analytical purposes”, K. Preketes-Sigalas, E. Ntemou, M. Kokkoris, X. Aslanoglou, M. Axiotis, V. Foteinou, S. Harissopoulos, A. Lagoyannis, P. Misaelides, N. Patronis, G. Provas, *Nucl. Instrum. Methods Phys. Res. B*, 414, 99-103 (2018), DOI: [10.1016/j.nimb.2017.10.035](https://doi.org/10.1016/j.nimb.2017.10.035)
- “Measurement of the differential cross sections of  ${}^6\text{Li}(d,d_0)$  for Ion Beam Analysis purposes”, E. Ntemou, X. Aslanoglou, M. Axiotis, V. Foteinou, M. Kokkoris, A. Lagoyannis, P. Misaelides, N. Patronis, K. Preketes-Sigalas, G. Provas, R. Vlastou, *Nucl. Instrum. Methods Phys. Res. B*, 407, 34 (2017), DOI: [10.1016/j.nimb.2017.05.053](https://doi.org/10.1016/j.nimb.2017.05.053)
- “Differential cross section measurements of the  ${}^{19}\text{F}(d,d_0)$  elastic scattering for Ion Beam Analysis purposes”, V. Foteinou, G. Provas, X. Aslanoglou, M. Axiotis, S. Harissopoulos, M. Kokkoris, A. Lagoyannis, P. Misaelides, E. Ntemou, N. Patronis, K. Preketes-Sigalas, *Nucl. Instrum. Methods Phys. Res. B*, 396, 1-4 (2017), DOI: [10.1016/j.nimb.2017.01.087](https://doi.org/10.1016/j.nimb.2017.01.087)
- “Lifetime measurements in Ru 100”, T. Konstantinopoulos, P. Petkov, A. Goasduff, T. Arici, A. Astier, L. Atanasova, M. Axiotis, D. Bonatsos, P. Detistov, A. Dewald, M.J. Eller, V. Foteinou, A. Gargano, G. Georgiev, K. Gladnishki, A. Gottardo, S. Harissopoulos, H. Hess, S. Kaim, D. Kocheva, A. Kusoglu, A. Lagoyannis, J. Ljungvall, R. Lutter, I. Matea, B. Melon, T.J. Mertzimekis, A. Nannini, C.M. Petrache, A. Petrovici, G. Provas, P. Reiter, M. Rocchini, S. Rocchia, M. Seidlitz, B. Siebeck, D. Suzuki, N. Warr, H. De Witte, T. Zerrouki, *Phys. Rev. C*, 95(1), 014309 (2017), DOI: [10.1103/PhysRevC.95.014309](https://doi.org/10.1103/PhysRevC.95.014309)
- “PIGE related differential cross-section measurements of the  ${}^{25}\text{Mg}(p,p'\gamma){}^{25}\text{Mg}$  reaction”, K. Preketes-Sigalas, A. Lagoyannis, M. Axiotis, H. W. Becker, V. Foteinou, S. Harissopoulos, M. Kokkoris, G. Provas, *Nucl. Instrum. Methods Phys. Res. B*, 386, 4-7 (2016), DOI: [10.1016/j.nimb.2016.08.020](https://doi.org/10.1016/j.nimb.2016.08.020)
- “Systematic study of proton capture reactions in medium-mass nuclei relevant to the  $p$  process: The case of  ${}^{103}\text{Rh}$  and  ${}^{113,115}\text{In}$ ”, S. Harissopoulos, A. Spyrou, V. Foteinou, M. Axiotis, G. Provas, P. Demetriou, *Phys. Rev. C* 93(2), 025804 (2016), DOI: [10.1103/PhysRevC.93.025804](https://doi.org/10.1103/PhysRevC.93.025804)
- “Study of the  ${}^{10}\text{B}(p,\alpha\gamma){}^7\text{Be}$  and  ${}^{10}\text{B}(p,p\gamma){}^{10}\text{B}$  reactions for PIGE purposes”, A. Lagoyannis, K. Preketes-Sigalas, M. Axiotis, V. Foteinou, S. Harissopoulos, M. Kokkoris, P. Misaelides, V. Paneta, N. Patronis, *Nucl. Instrum. Methods Phys. Res. B*, 342, 271-276 (2015), DOI: [10.1016/j.nimb.2014.10.021](https://doi.org/10.1016/j.nimb.2014.10.021)
- “Investigation of the reaction  ${}^{74}\text{Ge}(p,\gamma){}^{75}\text{As}$  using the in-beam method to improve reaction network predictions for  $p$  nuclei”, A. Sauerwein, J. Endres, L. Netterdon, A. Zilges, V. Foteinou, G. Provas, T. Konstantinopoulos, M. Axiotis, S. F. Ashley, S. Harissopoulos, T. Rauscher, *Phys. Rev. C* 86(3), 035802 (2012), DOI: [10.1103/PhysRevC.86.035802](https://doi.org/10.1103/PhysRevC.86.035802)
- “Study of the  $d + {}^{11}\text{B}$  system differential cross-sections for NRA purposes”, M. Kokkoris, M. Diakaki, P. Misaelides, X. Aslanoglou, A. Lagoyannis, C. Raepsaet, V. Foteinou, S. Harissopoulos, R. Vlastou, C.T. Papadopoulos, *Nucl. Instrum. Methods Phys. Res. B*, 267, 1740-1743 (2009), DOI: [10.1016/j.nimb.2009.01.087](https://doi.org/10.1016/j.nimb.2009.01.087)
- “Differential cross section measurements of the  ${}^{32}\text{S}(d,p){}^{33}\text{S}$  reaction for nuclear reaction analysis purposes”, A. Lagoyannis, S. Harissopoulos, P. Misaelides, G. Provas, V. Foteinou, M. Kokkoris, *Nucl. Instrum. Methods Phys. Res. B*, 266(10), 2259-2262 (2008), DOI: [10.1016/j.nimb.2008.03.004](https://doi.org/10.1016/j.nimb.2008.03.004)
- “A detailed study of the  $d + {}^{10}\text{B}$  system, for nuclear reaction analysis – Part B: The  ${}^{10}\text{B}(d,\alpha_0){}^8\text{Be}$  reaction in the energy region  $E_{d,lab}=900-2000\text{ keV}$ ”, M. Kokkoris, V. Foteinou, G. Provas, C.T. Papadopoulos, R. Vlastou, P. Misaelides, A. Lagoyannis, S. Harissopoulos, *Nucl. Instrum. Methods Phys. Res. B*, 263(2), 369-374 (2007), DOI: [10.1016/j.nimb.2007.07.002](https://doi.org/10.1016/j.nimb.2007.07.002)
- “A detailed study of the  $d + {}^{10}\text{B}$  system for nuclear reaction analysis-Part A: The  ${}^{10}\text{B}(d,p){}^{11}\text{B}$  reaction in the energy region  $E_{d,lab}=900-2000\text{ keV}$ ”, M. Kokkoris, V. Foteinou, G. Provas, A. Kontos, N. Patronis, C.T. Papadopoulos, R. Vlastou, P. Misaelides, A. Lagoyannis, S. Harissopoulos, *Nucl. Instrum. Methods Phys. Res. B*, 263(2), 357-368 (2007), DOI: [10.1016/j.nimb.2007.07.003](https://doi.org/10.1016/j.nimb.2007.07.003)

## Publications in conference proceedings

- “Photonic integration of  ${}^{171}\text{Ytterbium}$  single photon sources into an  $\text{LiNbO}_3$ -based photonic platform”, F. Sardi, V. Foteinou, R. Stoehr, R. Kolesov, W. Wrachtrup, *Proc. SPIE*, 12911 (2024), DOI: [10.1117/12.3001722](https://doi.org/10.1117/12.3001722)
- “Measurement of differential cross sections for proton elastic scattering on  ${}^{nat}\text{O}$  at  $E_p=4-6\text{ MeV}$ , suitable for EBS”, M. Kokkoris, K. Bosbotinis, V. Foteinou, A. Lagoyannis, F. Maragkos, N. Patronis, E. Taimpiri, A. Ziagkova, *HNPS ANP*, 29, 13-19 (2023), DOI: [10.12681/hnpsanp.5183](https://doi.org/10.12681/hnpsanp.5183)
- “First results from the  ${}^{63}\text{Cu}(\alpha,\gamma){}^{67}\text{Ga}$  reaction study for nuclear astrophysics purposes”, M. Peoviti, N. Patronis, M. Axiotis, V. Foteinou, D. Rogalla, F. Maragkos, S. Harissopoulos, *HNPS ANP*, 29, 27-32 (2023), DOI: [10.12681/hnpsanp.5091](https://doi.org/10.12681/hnpsanp.5091)

- “Differential Cross-section Measurements for  $^3\text{He}$  Elastic Scattering on  $^{16}\text{O}$  and  $^{27}\text{Al}$ ”, F. Maragkos, K. Bosmpotinis, D. Cosic, S. Fazinic, V. Foteinou, M. Kokkoris, M. Krmpotic, N. Patronis, G. Provas, E. Taimpiri, Th. Tsakiris, *JPCS*, 2326(1), 012011 (2022), DOI: [10.1088/1742-6596/2326/1/012011](https://doi.org/10.1088/1742-6596/2326/1/012011)
- “Measurement of radiative  $\alpha$ -capture cross sections on  $^{98}\text{Ru}$  and  $^{144}\text{Sm}$  for  $\gamma$ -process nucleosynthesis”, P. Scholz, H. Wilsenach, A. Blazhev, H.-W. Becker, F. Heim, V. Foteinou, U. Giesen, M. Körschgen, M. Müller, K.O. Zell, A. Zilges, K. Zuber, *JPCS*, 1668(1), 012036 (2020), DOI: [10.1088/1742-6596/1668/1/012036](https://doi.org/10.1088/1742-6596/1668/1/012036)
- “Measurement of the differential cross sections of  $^6,^7\text{Li}(d,d_0)^6,^7\text{Li}$  for Ion Beam Analysis purposes”, E. Ntemou, X. Aslanoglou, M. Axiotis, V. Foteinou, M. Kokkoris, A. Lagoyannis, P. Misaelides, N. Patronis, K. Preketes-Sigalas, G. Provas, R. Vlastou, *HNPS ANP*, 25, 208 (2017), DOI: [10.12681/hnps.1974](https://doi.org/10.12681/hnps.1974)
- “Study of the differential cross section of the  $^{25}\text{Mg}(p,p'\gamma)^{25}\text{Mg}$  reaction for PIGE purposes”, K. Preketes-Sigalas, A. Lagoyannis, M. Axiotis, H.-W. Becker, V. Foteinou, S. Harissopoulos, M. Kokkoris, G. Provas, *HNPS ANP*, 25, 202 (2017), DOI: [10.12681/hnps.1973](https://doi.org/10.12681/hnps.1973)
- “Experimental Investigation of radiative proton-capture reactions relevant to Nucleosynthesis”, A. Chalil, T. J. Mertzimekis, A. Psaltis, I. Psyrra, A. Kanellakopoulos, V. Lagaki, V. Foteinou, M. Axiotis, S. Harissopoulos, *HNPS ANP*, 24, 168 (2016), DOI: [10.12681/hnps.1861](https://doi.org/10.12681/hnps.1861)
- “Measurement of the differential cross sections of  $^{nat}\text{Li}(d,d_0)$  for EBS purposes”, E. Ntemou, K. Preketes-Sigalas, X. Aslanoglou, V. Foteinou, M. Kokkoris, A. Lagoyannis, P. Misaelides, N. Patronis, G. Provas, R. Vlastou, *HNPS ANP*, 24, 272 (2016), DOI: [10.12681/hnps.1880](https://doi.org/10.12681/hnps.1880)
- “A simple angle integration method for the determination of capture reaction cross sections”, V. Michalopoulou-Petropoulou, V. Lagaki, M. Axiotis, V. Foteinou, A. Lagoyannis, G. Provas, S. Harissopoulos, *HNPS ANP*, 24, 129 (2016), DOI: [10.12681/hnps.1855](https://doi.org/10.12681/hnps.1855)
- “New Instruments for Nuclear Astrophysics”, M. Axiotis, A. Lagoyannis, G. Provas, V. Foteinou, A. Karydas, V. Kantarelou, D. Bazzacco, C. R. Alvarez, D. R. Napoli, R. Menegazzo, S. Harissopoulos, *HNPS ANP*, 23, 8 (2015), DOI: [10.12681/hnps.1900](https://doi.org/10.12681/hnps.1900)
- “Neutron reaction studies in the rare earth region: First results for the  $^{162}\text{Er}(n,2n)^{161}\text{Er}$  physics case”, N. Patronis, X. Aslanoglou, M. Axiotis, Z. Eleme, V. Foteinou, S. Harissopoulos, A. Kalamara, M. Kokkoris, G. Provas, R. Vlastou, *HNPS ANP*, 22, 45 (2014), DOI: [10.12681/hnps.1929](https://doi.org/10.12681/hnps.1929)
- “Systematic cross section measurements of  $(\alpha, \gamma)$  reactions for astrophysics”, G. Provas, V. Foteinou, M. Axiotis, A. Lagoyannis, P. Demetriou, S. Harissopoulos, H.-W. Becker, D. Rogalla, L. Netterdon, J. Winkens, A. Zilges, *HNPS ANP*, 22, 94 (2014), DOI: [10.12681/hnps.1937](https://doi.org/10.12681/hnps.1937)
- “Study of the  $^{10}\text{B}(p, \alpha, \gamma)^7\text{Be}$  and  $^{10}\text{B}(p, p'\gamma)^{10}\text{B}$  reactions for PIGE purposes”, A. Lagoyannis, K. Preketes-Sigalas, M. Axiotis, V. Foteinou, S. Harissopoulos, M. Kokkoris, P. Misaelides, V. Paneta, N. Patronis, *HNPS ANP*, 22, 40 (2014), DOI: [10.12681/hnps.1928](https://doi.org/10.12681/hnps.1928)
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