

ANTIGONI KALAMARA - Curriculum Vitae

PERSONAL INFORMATION Family Name **KALAMARA**

First Name **ANTIGONI**

Nationality **Greek**

Current Position **Post Doctoral Position, N.C.S.R. “Demokritos”, Greece**

📍 Work address **Patriarchou Grigoriou E & Neapoleos 27,
Ag. Paraskevi 153 41, Greece**

☎ Office phone **210 650 3713**

✉ **a.kalamara@ipta.demokritos.gr | antigonikalamara@gmail.com**

EDUCATION AND TRAINING

May 2015 – January 2019 PhD in Nuclear Physics, Department of Physics, N.T.U.A., Greece
Subject: «Neutron induced reactions on Ir and Au and production of isomeric states».
Supervisor: R. Vlastou

September 2011 – Feb. 2014 Master of Science «Physics and Technological Applications», N.T.U.A. – N.C.S.R.
“Demokritos”, Greece / Grade: “Very good” (8.83 / 10)
Thesis: «Implementation of the $^3\text{H}(d,n)^4\text{He}$ reaction for the production of a high
energy neutron beam at 17.5 MeV to study the $^{241}\text{Am}(n,2n)^{240}\text{Am}$ reaction».
Supervisor: R. Vlastou

September 2004 – June 2011 5-year Diploma in «Applied Physics», School of Applied Mathematics and Physical
Sciences, N.T.U.A., Greece / Grade: “Very good” (7.14 / 10)
Thesis: «Cross section measurement of the $^{241}\text{Am}(n,2n)^{240}\text{Am}$ reaction».
Supervisor: R. Vlastou

SCHOLARSHIPS AND AWARDS

1. IKY scholarship programme financed through the action “Funding scholarship programme for second cycle post-graduate studies” in the framework of the Operational Programme “Human Resources Development Program, Education and Lifelong Learning”, 2014-2020, co-financed by the European Union (European Social Fund - ESF) and Greek national funds (2017-2018).
2. 3 N.T.U.A. Thomaidas Awards for published articles in peer reviewed journals (2016, 2017, 2018).

WORK EXPERIENCE

- November 2019 - Present **Post Doctoral Position in Applied Nuclear Physics, N.C.S.R. "Demokritos", Greece**
Monte Carlo simulations
Experimental measurements
Analysis of experimental
- January 2019 – October 2019 **Post Doctoral Position in Nuclear Physics, Department of Physics, N.T.U.A., Greece**
Experimental measurements
Supervising postgraduate and undergraduate students

TEACHING EXPERIENCE

- 2011 – today **MSc/ Diploma thesis co-supervision, Department of Physics, N.T.U.A., Greece**
- October 2013 – June 2015 **Undergraduate Physics Laboratory Instructor, Department of Physics, N.T.U.A., Greece**

PRINCIPAL SCIENTIFIC ACTIVITIES

- November 2019 - today **Neutron physics in cancer therapy**
It includes Monte-Carlo simulations for neutron transportation (NeuSDesc and MCNP codes). Preparation of organometallic photo-toxin solutions (future medicines) and in-beam fluorescence measurements.
- June 2010 – October 2019 **Neutron induced reaction studies, experimental and theoretical**
It mainly includes cross section measurements of (n,xn) reactions of various isotopes at the neutron facility of the N.C.S.R. "Demokritos" and the TSL Laboratory (Uppsalla, Sweden), as well as phenomenological studies of these reactions with theoretical models (EMPIRE and TALYS codes).
- March 2016 **Quality control of electronic devices with external proton beam**
Experimental tests with external proton beam and data analysis (SIMNRA).
-

INTERNATIONAL SCHOOLS

Participation in International Schools:

1. "3rd n_TOF Winter School", School at Zermatt, Switzerland, January 15 – 19, 2018.
 2. "Neutron Resonance Analysis School 2017", School at the Joint Research Center in Geel, Belgium, November 6 - 10, 2017.
 3. "Nuclear Data Measurements for Science and Applications 2015", International Centre for Theoretical Physics in Trieste, Italy from October 19-30, 2015.
 4. "Neutron Resonance Analysis School 2014", School at the Institute for Reference Materials in Geel, Belgium from December 15- 19, 2014.
-

PROJECTS

Participation in funded research projects:

1. FRINGE–Fluorescence and Reactive oxygen Intermediates by Neutron Generated electronic Excitation as a foundation for radically new cancer therapies.
 2. «CHANDA-SOLVING CHALLENGES IN NUCLEAR DATA» (FP7-Fission-2013).
 3. Research and development of an in-situ underwater gamma-ray spectrometer for low-level radioactivity measurements (RADIOSCOPIO). Research and development of a spectrometer for the detection of low radioactivity levels, International collaboration Greece – China (European Funds 2007-2013 12CHN212), Hellenic Centre for Marine Research and National Technical University of Athens, Greece.
-

MEMBERSHIPS AND
REVIEWING ACTIVITIES

1. Member of the Hellenic Nuclear Physics Society (2012-present)
 2. Reviewing for:
 - Nuclear Physics and Atomic Energy Journal, published by the Institute for Nuclear Research, Kyiv, Ukraine (<http://jnuae.kinr.kiev.ua>)
 - Modern Physics Letters A (<https://www.worldscientific.com/worldscinet/mpla>)
 - Chinese Physics C (<http://cpc.ihep.ac.cn/>)
-

PRESENTATIONS

- 2 oral presentations in internal FRINGE collaboration meetings (2019, 2020)
 - 2 oral presentations in peer-reviewed International Conference (ND2016, ND2019)
 - 6 oral presentations in National Conferences (HNPS 2014, HNPS 2015, HNPS 2016, HNPS 2017, HNPS 2018, HNPS 2019).
 - 1 poster in International School (ICTP 2015)
 - 2 posters in National Conferences (HNPS 2012, 2013)
-

INTERNATIONAL
CONFERENCES

Participation Peer-reviewed International Conferences:

- International Conference on Nuclear Data for Science and Technology, 19-24.5.2019, Beijing, China.
 - International Conference on Nuclear Data for Science and Technology, 11-16.9.2016, Bruges, Belgium.
-

NATIONAL CONFERENCES

Participation in 9 National Conferences:

- 29th Annual Symposium of the Hellenic Nuclear Physics Society, HNPS2021, NCSR "Demokritos", September 24-25, 2021.
- 28th Annual Symposium of the Hellenic Nuclear Physics Society, HNPS2019, Aristotle University of Thessaloniki, May 31-June 1, 2019.
- 27th Annual Symposium of the Hellenic Nuclear Physics Society, HNPS2018, National and Kapodistrian University of Athens, 8-9 June 2018, Athens.
- 26th Annual Symposium of the Hellenic Nuclear Physics Society, HNPS2017, HCMR, June 9-10, 2017.
- 25th Annual Symposium of the Hellenic Nuclear Physics Society, HNPS2016, NCSR "Demokritos", June 3-4, 2016.
- 24th Annual Symposium of the Hellenic Nuclear Physics Society, HNPS2015, University of Ioannina, May 22- 23, 2015.
- 23rd Annual Symposium of the Hellenic Nuclear Physics Society, HNPS2014, Aristotle University of Thessaloniki, June 20-21, 2014.
- 22nd Annual Symposium of the Hellenic Nuclear Physics Society, HNPS2013, National and Kapodistrian University of Athens, May 31- June 1, 2013.
- 21st Annual Symposium of the Hellenic Nuclear Physics Society, HNPS2012, NCSR "Demokritos", May 25-26, 2012.

PERSONAL SKILLS

Mother tongue Greek

Foreign language English (Certificate of Proficiency in English, University of Michigan)

Computer skills

- Operational Systems: Windows, Linux
- Languages: Fortran, Java
- Software packages: Origin, Latex
- Monte Carlo packages: MCNP6, MCNPX, MCNP-CP, FLUKA
- Nuclear Physics software theory: NeuSDesc, TALYS, EMPIRE

Other skills

- Graduate of National Conservatory in «Contemporary Singing» (2015).
- Lead singer of the "Disillusive Play" band (2008-present).

Driving licence B

- **Publications in Peer Reviewed Journals (20)**

1. "Monte Carlo Simulation-Based Calculations of Complex DNA Damage for Incidents of Environmental Ionizing Radiation Exposure", Spyridon A. Kalospyros, Violeta Gika, Zacharenia Nikitaki, Antigoni Kalamara, Ioanna Kyriakou, Dimitris Emfietzoglou, Michael Kokkoris, Alexandros G. Georgakilas, *Appl. Sci.*, 11, 8985, 2021, DOI: [10.3390/app11198985](https://doi.org/10.3390/app11198985)
2. "Measurement of the $^{232}\text{Th}(n,f)$ cross section with quasi-monoenergetic neutron beams in the energy range 2–18 MeV", V. Michalopoulou, M. Axiotis, S. Chasapoglou, Z. Eleme, G. Gkatis, **A. Kalamara**, M. Kokkoris, A. Lagoyannis, N. Patronis, A. Stamatopoulos, A. Tsantiri and R. Vlastou, *Eur. Phys. J. A*, 57:277, 2021, DOI: [10.1140/epja/s10050-021-00590-w](https://doi.org/10.1140/epja/s10050-021-00590-w)
3. "Cross-section measurements of the $^{156}\text{Dy}(n,2n)^{155}\text{Dy}$ reaction at neutron energies higher than 17 MeV", E. Georgali, N. Patronis, A. Anastasiadis, X. Aslanoglou, M. Axiotis, S. Chasapoglou, Z. Eleme, S. Harissopoulos, **A. Kalamara**, M. Kokkoris, A. Lagoyannis, E. Mitsi, M. I. Savva, I. E. Stamatelatos, T. Vasilopoulou and R. Vlastou, *Phys. Rev. C*, 104, 064603, 2021, DOI: [10.1103/PhysRevC.104.064603](https://doi.org/10.1103/PhysRevC.104.064603)
4. "Destruction of the cosmic γ -ray emitter ^{26}Al in massive stars: Study of the key $^{26}\text{Al}(n,p)$ reaction", C. Lederer-Woods and the n_TOF collaboration, *Phys. Rev. C*, 104, L022803, 2021, DOI: [10.1103/PhysRevC.104.L022803](https://doi.org/10.1103/PhysRevC.104.L022803)
5. "Destruction of the cosmic γ -ray emitter ^{26}Al in massive stars: Study of the key $^{26}\text{Al}(n,\alpha)$ reaction", C. Lederer-Woods and the n_TOF collaboration, *Phys. Rev. C*, 104, L032803, 2021, DOI: [10.1103/PhysRevC.104.L032803](https://doi.org/10.1103/PhysRevC.104.L032803)
6. "Measurement of the $^{72}\text{Ge}(n,\gamma)$ cross section over a wide neutron energy range at the CERN n_TOF facility", M. Dietz and the n_TOF collaboration, *Phys. Rev. C* 103, 045809, 2021, DOI: [10.1103/PhysRevC.103.045809](https://doi.org/10.1103/PhysRevC.103.045809)
7. "Experimental study of the $^{165}\text{Ho}(n,2n)$ reaction: Cross section measurements for the population of the ^{164}Ho ground state and isomeric state from the threshold up to 20 MeV", E. Georgali, N. Patronis, A. Anastasiadis, X. Aslanoglou, M. Axiotis, Z. Eleme, S. Harissopoulos, **A. Kalamara**, K. Karfopoulos, M. Kokkoris, A. Lagoyannis, M. Peoviti, C. Potiriadis, M. I. Savva, I. E. Stamatelatos, M. E. Stamati, A. Stamatopoulos, E. Vagena, T. Vasilopoulou and R. Vlastou, *Phys. Rev. C* 102, 034610, 2020, DOI: <https://doi.org/10.1103/PhysRevC.102.034610>
8. "A compact fission detector for fission-tagging neutron capture experiments with radioactive fissile isotopes", M. Bacak and the n_TOF collaboration, *Nucl. Instr. and Meth. in Physics Research A*, 969, 163981, 2020, DOI: [10.1016/j.nima.2020.163981](https://doi.org/10.1016/j.nima.2020.163981)
9. "Determination of the $^{193}\text{Ir}(n,2n)$ reaction cross section and correction methodology for the $^{191}\text{Ir}(n,\gamma)$ contamination", **A. Kalamara**, N. Patronis, R. Vlastou, M. Kokkoris, S. Chasapoglou, A. Stamatopoulos, M. Serris, V. Paneta, M. Axiotis, A. Lagoyannis, S. Harissopoulos and I. Stamatelatos, *EPJ A*, 55, No. 187, 2019, DOI: [10.1140/epja/i2019-12879-x](https://doi.org/10.1140/epja/i2019-12879-x)
10. "Measurement of the $^{235}\text{U}(n,f)$ cross section relative to the $^6\text{Li}(n,t)$ and $^{10}\text{B}(n,\alpha)$ standards from thermal to 170 keV neutron energy range at n_TOF", S. Amaducci and the n_TOF collaboration, *Eur. Phys. J. A*, 55, 7, 2019, DOI: [10.1140/epja/i2019-12802-7](https://doi.org/10.1140/epja/i2019-12802-7)

11. "An alternative methodology for high counting-loss corrections in neutron time-of-flight measurements", A. Stamatopoulos, M. Diakaki, A. Tsinganis, F. Gusing, L. Tassan-Got, M. Kokkoris, **A. Kalamara**, P. Žugec, N. Patronis, M. Sabate-Gilarte, R. Vlastou, The n_TOF collaboration, Nucl. Instr. and Meth. in Physics Research A, 913, 40-47, 2019, DOI: [10.1016/j.nima.2018.10.032](https://doi.org/10.1016/j.nima.2018.10.032)
12. "Cross section measurements of $^{155,157}\text{Gd}(n,\gamma)$ induced by thermal and epithermal neutrons", M. Mastromarco and the n-TOF collaboration, Eur. Phys. J. A, Vol. 55, 1, 2019, DOI: [10.1140/epja/i2019-12692-7](https://doi.org/10.1140/epja/i2019-12692-7)
13. "The intensities of γ -rays from the decay of $^{196\text{m}2}\text{Au}$ ", M. Majerle, M. Stefanik, J. Kamenik, E. Simeckova, D. Venos, **A. Kalamara** and R. Vlastou, Applied Radiation and Isotopes, 141, 5-9, 2018, DOI: <https://doi.org/10.1016/j.apradiso.2018.07.026>
14. " $^{191}\text{Ir}(n,2n)$ and $^{191}\text{Ir}(n,3n)$ reaction cross sections in the 15-21 MeV energy range", **A. Kalamara**, R. Vlastou, M. Kokkoris, S. Chasapoglou, A. Stamatopoulos, N. Patronis, M. Serris, A. Lagoyannis and S. Harissopulos, Phys. Rev. C, 98, 034607, 2018, DOI: [10.1103/PhysRevC.98.034607](https://doi.org/10.1103/PhysRevC.98.034607)
15. "The $(n,2n)$ reaction for the lightest stable erbium isotope ^{162}Er from 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. Provas, A. Stamatopoulos, S. Stoulos, A. Tsinganis, E. Vagena, R. Vlastou and S. M. Vogiatzi, Phys. Rev. C, 98, 014622, 2018, DOI: [10.1103/PhysRevC.98.014622](https://doi.org/10.1103/PhysRevC.98.014622)
16. " $^7\text{Be}(n,p)^7\text{Li}$ Reaction and the Cosmological Lithium Problem: Measurement of the Cross Section in a Wide Energy Range at n-TOF at CERN", L. A. Damone and the n_TOF collaboration, Phys. Rev. Lett. 121, 4, 042701, 2018, DOI: [10.1103/PhysRevLett.121.042701](https://doi.org/10.1103/PhysRevLett.121.042701)
17. "Experimental setup and procedure for the measurement of the $^7\text{Be}(n,p)^7\text{Li}$ reaction at n_TOF", M. Barbagallo and the n_TOF collaboration, Nucl. Instr. and Meth. in Phys. Res. A, 887, 27-33, 2018, DOI: [10.1016/j.nima.2017.12.025](https://doi.org/10.1016/j.nima.2017.12.025)
18. " $^{197}\text{Au}(n,2n)$ reaction cross section in the 15-21 MeV energy range", **A. Kalamara**, R. Vlastou, M. Kokkoris, N. G. Nicolis, N. Patronis, M. Serris, V. Michalopoulou, A. Stamatopoulos, A. Lagoyannis and S. Harissopulos, Phys. Rev. C, 97, 034615, 2018, DOI: [10.1103/PhysRevC.97.034615](https://doi.org/10.1103/PhysRevC.97.034615)
19. "Measurement of the $^{234}\text{U}(n,f)$ cross-section with quasi-monoenergetic beams in the keV and MeV range using a Micromegas detector assembly", A. Stamatopoulos, A. Kanellakopoulos, **A. Kalamara**, M. Diakaki, A. Tsinganis, M. Kokkoris, V. Michalopoulou, M. Axiotis, A. Lagoyannis and R. Vlastou, Eur. Phys. J. A, 54, 7, 2018, DOI: [10.1140/epja/i2018-12429-2](https://doi.org/10.1140/epja/i2018-12429-2)
20. "Investigation of the $^{241}\text{Am}(n,2n)^{240}\text{Am}$ cross section", **A. Kalamara**, R. Vlastou, M. Kokkoris, M. Diakaki, A. Tsinganis, N. Patronis, M. Axiotis and A. Lagoyannis, Phys. Rev. C, 93, 014610, 2016, DOI: [10.1103/PhysRevC.93.014610](https://doi.org/10.1103/PhysRevC.93.014610)

- **Publications in International Conferences (20)**

1. "Measurement of the $^{234}\text{U}(n,f)$ cross section in the energy range between 14.8 and 17.8 MeV using Micromegas detectors", **A. Kalamara**, S. Chasapoglou, V. Michalopoulou, A. Stamatopoulos, Z. Eleme, M. Kokkoris, A. Lagoyannis, N. Patronis, R. Vlastou, International Conference on Nuclear Data for Science and Technology, ND 2019, 19-24 May 2019, Beijing, China, EPJ Web of Conferences 239, 05005, 2020, DOI: <https://doi.org/10.1051/epjconf/202023905005>

2. "Isomeric cross section study of neutron induced reactions on Ge isotopes", R. Vlastou, **A. Kalamara**, G. Gkatis, A. Stamatopoulos, M. Kokkoris, S. Chasapoglou, M. Axiotis and A. Lagoyannis, International Conference on Nuclear Data for Science and Technology, ND 2019, 19-24 May 2019, Beijing, China, EPJ Web of Conferences EPJ Web of Conferences 239, 01028, 2020, DOI: <https://doi.org/10.1051/epjconf/202023901028>
3. "Measurement of the $^{236}\text{U}(n,f)$ cross-section at Fast Neutron Energies with Micromegas Detectors", M. Diakaki, V. Michalopoulou, A. Tsinganis, A. Axiotis, **A. Kalamara**, M. Kokkoris, A. Lagoyannis, N. Patronis, A. Stamatopoulos and R. Vlastou, International Conference on Nuclear Data for Science and Technology, ND 2019, 19-24 May 2019, Beijing, China, EPJ Web of Conferences 239, 05001, 2020, DOI: <https://doi.org/10.1051/epjconf/202023905001>
4. "Study of the neutron-induced fission cross section of ^{237}Np at CERN'S nTOF facility over a wide energy range", A. Stamatopoulos and the n_TOF Collaboration, International Conference on Nuclear Data for Science and Technology, ND 2019, 19-24 May 2019, Beijing, China, EPJ Web of Conferences 239, 05006, 2020, DOI: <https://doi.org/10.1051/epjconf/202023905006>
5. " $^7\text{Be}(n,p)^7\text{Li}$ Cross Section Measurement for the Cosmological Lithium Problem at the n_TOF Facility at CERN", L. A. Damone and the n_TOF collaboration, Springer Proceedings in Physics, 219, 25-32, 2019, DOI: [10.1007/978-3-030-13876-9_5](https://doi.org/10.1007/978-3-030-13876-9_5)
6. "First Measurement of $^{72}\text{Ge}(n,\gamma)$ at n-TOF", M. Dietz and the n_TOF collaboration, 9th European Summer School on Experimental Nuclear Astrophysics, ENNAS 2017, 17-24 September 2017, Catania, Italy, EPJ Web of Conferences, 184, 02005, 2018, DOI: [10.1051/epjconf/201718402005](https://doi.org/10.1051/epjconf/201718402005)
7. "Cross section of the $^{197}\text{Au}(n,2n)^{196}\text{Au}$ reaction", **A. Kalamara**, R. Vlastou, M. Kokkoris, M. Diakaki, M. Serris, N. Patronis, M. Axiotis, A. Lagoyannis, International Conference on Nuclear Data for Science and Technology, ND 2016, 11-16 September 2016, Bruges, Belgium, EPJ Web of Conferences 146, No. 11048, 2017, DOI: [10.1051/epjconf/201714611048](https://doi.org/10.1051/epjconf/201714611048)
8. "Neutron-induced fission cross-section measurement of ^{234}U with quasi-monoenergetic beams in the keV and MeV range using Micromegas detectors", A. Tsinganis, M. Kokkoris, R. Vlastou, **A. Kalamara**, A. Stamatopoulos, A. Kanellakopoulos, A. Lagoyannis, M. Axiotis, International Conference on Nuclear Data for Science and Technology, ND 2016, 11-16 September 2016, Bruges, Belgium, EPJ Web of Conferences 146, No. 04035, 2017, DOI: [10.1051/epjconf/201714604035](https://doi.org/10.1051/epjconf/201714604035)
9. "Study of (n,2n) reaction on $^{191,193}\text{Ir}$ isotopes and isomeric cross section ratios", R. Vlastou, **A. Kalamara**, M. Kokkoris, N. Patronis, M. Serris, M. Georgoulakis, S. Hassapoglou, K. Kobothisanis, M. Axiotis, A. Lagoyannis, International Conference on Nuclear Data for Science and Technology, ND 2016, 11-16 September 2016, Bruges, Belgium, EPJ Web of Conferences 146, No. 11013, 2017, DOI: [10.1051/epjconf/201714611013](https://doi.org/10.1051/epjconf/201714611013)
10. "The n TOF facility: Neutron beams for challenging future measurements at CERN", E. Chiaveri and the n_TOF Collaboration, International Conference on Nuclear Data for Science and Technology, ND 2016, 11-16 September 2016, Bruges, Belgium, EPJ Web of Conferences 146, No. 03001, 2017, DOI: [10.1051/epjconf/201714603001](https://doi.org/10.1051/epjconf/201714603001)
11. "Monte Carlo simulations of the n TOF lead spallation target with the Geant4 toolkit: A benchmark study", J. Lerendegui-Marco and the n_TOF Collaboration, International Conference on Nuclear Data for Science and Technology, ND 2016, 11-16 September 2016, Bruges, Belgium, EPJ Web of Conferences 146, No. 03030, 2017, DOI: [10.1051/epjconf/201714603030](https://doi.org/10.1051/epjconf/201714603030)

12. "New measurement of the $^{242}\text{Pu}(n,\gamma)$ cross section at n TOF-EAR1 for MOX fuels: Preliminary results in the RRR, J. Lereendegui-Marco and the n_TOF Collaboration, International Conference on Nuclear Data for Science and Technology, ND 2016, 11-16 September 2016, Bruges, Belgium, EPJ Web of Conferences 146, No. 11045, 2017,
DOI: [10.1051/epjconf/201714611045](https://doi.org/10.1051/epjconf/201714611045)
13. "Time-of-flight and activation experiments on ^{147}Pm and ^{171}Tm for astrophysics", C. Guerrero and the n_TOF Collaboration, International Conference on Nuclear Data for Science and Technology, ND 2016, 11-16 September 2016, Bruges, Belgium, EPJ Web of Conferences 146, No. 01007, 2017,
DOI: [10.1051/epjconf/201714601007](https://doi.org/10.1051/epjconf/201714601007)
14. "The measurement programme at the neutron time-of-flight facility n_TOF at CERN", F. Gunsing and the n_TOF Collaboration, International Conference on Nuclear Data for Science and Technology, ND 2016, 11-16 September 2016, Bruges, Belgium, EPJ Web of Conferences 146, No. 11002, 2017,
DOI: [10.1051/epjconf/201714611002](https://doi.org/10.1051/epjconf/201714611002)
15. "Dissemination of data measured at the CERN n TOF facility", E. Dupont and the n_TOF Collaboration, International Conference on Nuclear Data for Science and Technology, ND 2016, 11-16 September 2016, Bruges, Belgium, EPJ Web of Conferences 146, No. 07002, 130583, 2017,
DOI: [10.1051/epjconf/201714607002](https://doi.org/10.1051/epjconf/201714607002)
16. "The Nuclear Astrophysics program at n_TOF (CERN)", N. Colonna and the n_TOF Collaboration", 8th International Conference on Nuclear Physics in Astrophysics, 18-23 June 2017, Catania, Italy, EPJ Web of Conferences 165, 01014, 2017,
DOI: [10.1051/epjconf/201716501014](https://doi.org/10.1051/epjconf/201716501014)
17. "Measurement of the $^{236}\text{U}(n,f)$ cross section with the micromegas detector", M. Diakaki, **A. Kalamara**, M. Kokkoris, G. Marangouli, A. Tsinganis, A. Panagiotopoulos, R. Vlastou, E. Berthoumieux, A. Lagoyannis, M. Axiotis, N. Patronis, "XXXIV Mazurian Lakes Conference on Physics Frontiers in Nuclear Physics", 6-13 September 2015, Piaski, Poland, Acta Physica Polonica B, Vol. 47, 789-795, 2016,
DOI: [10.5506/APhysPolB.47.789](https://doi.org/10.5506/APhysPolB.47.789)
18. "Recent results in nuclear astrophysics at the n-TOF facility at CERN", G. Tagliente and the n_TOF Collaboration, 26th International Nuclear Physics Conference, INPC 2016, 11-16 September 2016, Adelaide Convention Centre Adelaide, Australia, Proceedings of Science, Vol. 2016-September, No. 161, Code 131450, 2016, ISSN: 18248039,
URL: <https://pos.sissa.it/281/161/pdf>
19. "Neutron induced reactions with the 17 MeV facility at the Athens tandem accelerator NCSR "Demokritos"", R. Vlastou, **A. Kalamara**, M. Serris, M. Diakaki, M. Kokkoris, V. Paneta, M. Axiotis, A. Lagoyannis, 23rd International Conference on the Application of Accelerators in Research and Industry, CAARI 2014, Physics Procedia, Vol. 66, 425-431, 2015,
DOI: [10.1016/j.phpro.2015.05.053](https://doi.org/10.1016/j.phpro.2015.05.053)
20. "New measurements of the $^{241}\text{Am}(n,2n)^{240}\text{Am}$ cross section", **A. Kalamara**, M. Diakaki, R. Vlastou, M. Kokkoris, N. Nikolis, A. Tsinganis, S. Ashley, M. Axiotis, A. Lagoyannis, Nuclear Data Sheets, Vol. 119, 76-78, 2014,
DOI: [10.1016/j.nds.2014.08.023](https://doi.org/10.1016/j.nds.2014.08.023)

- **Publications in National Conferences (32)**

1. "Neutron Dosimetry for In Vitro Biomedical Sample Irradiations", **A. Kalamara**, I. E. Stamatelatos, K. L. Stefanopoulos, M. Grigalavicius, T. Theodossiou and A. Lagoyannis, HNPS Advances in Nucl. Phys. 28 (Submitted-2021)
2. "Measurement of the fission cross-section of ^{232}Th with quasi-monoenergetic neutron beams at NCSR "Demokritos" implementing Micromegas detectors", V. Michalopoulou, M. Axiotis, S. Chasapoglou, G. Gkatis, **A. Kalamara**, M. Kokkoris, A. Lagoyannis, A. Stamatopoulos, A. Tsantiri and R. Vlastou, HNPS Advances in Nucl. Phys. 28 (Submitted-2021).
3. "Fast neutron activation analysis optimization", Z. Bari, S. Chasapoglou, **A. Kalamara**, T. Vasilopoulou, M. Axiotis, A. Lagoyannis, M. Kokkoris, R. Vlastou and I. E. Stamatelatos, HNPS Advances in Nucl. Phys. 28 (Submitted-2021)
4. "Measurement of the $^{234}\text{U}(n,f)$ cross section in the energy range between 14.8 and 17.8 MeV using Micromegas detectors", **A. Kalamara**, S. Chasapoglou, V. Michalopoulou, A. Stamatopoulos, Z. Eleme, M. Kokkoris, A. Lagoyannis, N. Patronis, R. Vlastou, HNPS Advances in Nucl. Phys. 27, 25-32, 2020, DOI: [10.12681/hnps.2675](https://doi.org/10.12681/hnps.2675)
5. "Isomeric Cross Sections Study of Neutron Induced Reactions on Ge Isotopes", R. Vlastou, **A. Kalamara**, G. Gkatis, A. Stamatopoulos, S. Chasapoglou, M. Kokkoris, M. Axiotis, A. Lagoyannis, I. E. Stamatelatos, HNPS Advances in Nucl. Phys. 27, 180-184, 2020, DOI: [10.12681/hnps.2997](https://doi.org/10.12681/hnps.2997)
6. "Study of the $^{232}\text{Th}(n,f)$ Cross section at NCSR 'Demokritos' using Micromegas Detectors", S. Chasapoglou, A. Tsantiri, **A. Kalamara**, M. Kokkoris, V. Michalopoulou, A. Stamatopoulos, R. Vlastou, A. Lagoyannis, Z. Eleme, N. Patronis, HNPS Advances in Nucl. Phys. 27, 106-111, 2020, DOI: [10.12681/hnps.2994](https://doi.org/10.12681/hnps.2994)
7. "A detailed study of the high energy neutron flux (15-20MeV) at NCSR "Demokritos" using a BC501A liquid scintillator", E. Mitsi, S. Chasapoglou, **A. Kalamara**, M. Kokkoris, V. Michalopoulou, A. Stamatopoulos, R. Vlastou, A. Lagoyannis, M. Axiotis, N. Patronis, Z. Eleme, HNPS Advances in Nucl. Phys. 27, 143-147, 2020, DOI: [10.12681/hnps.2996](https://doi.org/10.12681/hnps.2996)
8. "Cross Section Measurements of (n,p) Reactions on Ge Isotopes", G. Gkatis, R. Vlastou, **A. Kalamara**, S. Chasapoglou, M. Kokkoris, M. Axiotis, A. Lagoyannis, I. E. Stamatelatos, HNPS Advances in Nucl. Phys. 27, 185-188, 2020, DOI: [10.12681/hnps.2998](https://doi.org/10.12681/hnps.2998) , URL: <https://eproceedings.epublishing.ekt.gr/index.php/hnps/article/view/2998>
9. "Study of the $^{165}\text{Ho}(n,2n)^{164}\text{Ho}^{g+m}$ reaction at near threshold energies", E. Georgali, N. Patronis, A. Anastasiadis, M. Axiotis, Z. Eleme, S. Harissopoulos, **A. Kalamara**, K. Karfopoulos, M. Kokkoris, A. Lagoyannis, M. Peoviti, C. Potiriadis, M. I. Savva, I. Stamatelatos, M. E. Stamati, A. Stamatopoulos, T. Vasilopoulou, R. Vlastou, HNPS Advances in Nucl. Phys. 27, 160-167, 2020, DOI: [10.12681/hnps.3001](https://doi.org/10.12681/hnps.3001)
10. "Cross section measurement of the $^{191}\text{Ir}(n,2n)^{190}\text{Ir}$ reaction", **A. Kalamara**, R. Vlastou, M. Kokkoris, N. Patronis, M. Serris, A. Stamatopoulos, S. Chasapoglou, A. Lagoyannis, S. Harissopoulos, HNPS Advances in Nucl. Phys. 26, 166-171, 2019, DOI: [10.12681/hnps.1813](https://doi.org/10.12681/hnps.1813)
11. "Study of the high energy neutron flux (15-20 MeV) at NCSR "Demokritos" using a BC501A liquid scintillator", E. Mitsi, S. Chasapoglou, **A. Kalamara**, M. Kokkoris, V. Michalopoulou, A. Stamatopoulos, R. Vlastou, A. Lagoyannis, Z. Eleme, N. Patronis, HNPS Advances in Nucl. Phys. 26, 214-218, 2019, DOI: [10.12681/hnps.1827](https://doi.org/10.12681/hnps.1827)

12. "Study of the $^{234,236}\text{U}(n,f)$ and $^{232}\text{Th}(n,f)$ cross sections in the energy range between 14.8 and 19.2 MeV with MicroMegas detectors", S. Chasapoglou, V. Michalopoulou, A. Stamatopoulos, **A. Kalamara**, M. Kokkoris, R. Vlastou, A. Lagoyannis, Z. Eleme, N. Patronis, HNPS Advances in Nucl. Phys. 26, 230-234, 2019,
DOI: [10.12681/hnps.1826](https://doi.org/10.12681/hnps.1826)
13. "Measurement of the $^{236}\text{U}(n,f)$ cross-section between 4 and 10 MeV with Micromegas detectors", V. Michalopoulou, M. Diakaki, M. Axiotis, **A. Kalamara**, M. Kokkoris, A. Lagoyannis, N. Patronis, A. Stamatopoulos, A. Tsinganis, R. Vlastou, HNPS Advances in Nucl. Phys. 26, 172-178, 2019,
DOI: [10.12681/hnps.1815](https://doi.org/10.12681/hnps.1815)
14. "Measurement and theoretical calculations for the cross section of the $^{197}\text{Au}(n,2n)^{196}\text{Au}$ reaction", **A. Kalamara**, R. Vlastou, M. Kokkoris, V. Michalopoulou, N. G. Nicolis, M. Serris, A. Stamatopoulos, N. Patronis, A. Lagoyannis and S. Harissopulos, HNPS Advances in Nucl. Phys. 25, 196-201, 2018,
DOI: [10.12681/hnps.1759](https://doi.org/10.12681/hnps.1759)
15. "Activation Cross Section Measurement of the (n,2n) Reactions on Natural Ir Isotopes", S. Chasapoglou, **A. Kalamara**, K. Krokidi, M. Kokkoris, V. Michalopoulou, A. Stamatopoulos, R. Vlastou, M. Axiotis, A. Lagoyannis, S. Harissopulos and N. Patronis, HNPS Advances in Nucl. Phys. 25, 230-233, 2018,
DOI: [10.12681/hnps.1772](https://doi.org/10.12681/hnps.1772)
16. "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", A. Stamatopoulos, A. Kanellakopoulos, **A. Kalamara**, M. Kokkoris, A. Tsinganis, R. Vlastou, V. Michalopoulou, M. Axiotis and A. Lagoyannis, HNPS Advances in Nucl. Phys. 25, 186-195, 2018,
DOI: [10.12681/hnps.1758](https://doi.org/10.12681/hnps.1758)
17. "Measurement of the $^{234}\text{U}(n,f)$ and $^{236}\text{U}(n,f)$ cross-sections in the MeV region with MicroMegas detectors", V. Michalopoulou, A. Stamatopoulos, **A. Kalamara**, M. Axiotis, M. Kokkoris, A. Lagoyannis and R. Vlastou, HNPS Advances in Nucl. Phys. 25, 239-243, 2018,
DOI: [10.12681/hnps.1774](https://doi.org/10.12681/hnps.1774)
18. "Experimental and theoretical study of the (n,2n) reactions on $^{174,175}\text{Hf}$ ", K. Krokidi, R. Vlastou, **A. Kalamara**, M. Serris, A. Stamatopoulos, S. Hassapoglou, V. Michalopoulou, M. Kokkoris, M. Axiotis and A. Lagoyannis, HNPS Advances in Nucl. Phys. 25, 226-229, 2018,
DOI: [10.12681/hnps.1771](https://doi.org/10.12681/hnps.1771)
19. "Neutron Beam Spatial Profile at n_TOF using CR-39 Nuclear Track Detectors", Z. Eleme, S. Georvasili, N. Patronis, E. Georgali, K.G. Ioannides, **A. Kalamara**, M. Kokkoris, C. Papachristodoulou, A. Stamatopoulos, A. Tsinganis, R. Vlastou and the n_TOF collaboration, HNPS Advances in Nucl. Phys. 25, 109-114, 2018,
DOI: [10.12681/hnps.1747](https://doi.org/10.12681/hnps.1747)
20. "Study of the $^{162}\text{Er}(n,2n)^{161}\text{Er}$ reaction from the reaction threshold up to 19 MeV neutron beam energy", E. Georgali, Z. Eleme, N. Patronis, X. Aslanoglou, M. Axiotis, M. Diakaki, V. Foteinou, A. Georgiadou, S. Harissopulos, **A. Kalamara**, M. Kokkoris, A. Lagoyannis, N. Nicolis, G. Provas, S. Stoulos, A. Tsinganis, E. Vagena, R. Vlastou, and S. M. Vogiatzi, HNPS Advances in Nucl. Phys. 25, 102-108, 2018,
DOI: [10.12681/hnps.1746](https://doi.org/10.12681/hnps.1746)
21. " $^{197}\text{Au}(n,xn)$ reactions at The Svedberg Laboratory high-energy neutron facility in Uppsala", **A. Kalamara**, R. Vlastou, M. Kokkoris, A. Stamatopoulos, E. Passoth, A. Mattera, M. Lantz, V. Rakopoulos, A. Prokoviev and M. Majerle, HNPS Advances in Nucl. Phys. 24, 2017,
DOI: [10.12681/hnps.1858](https://doi.org/10.12681/hnps.1858)

22. "Investigation of (n,2n) reactions using the high energy neutron facility at NCSR "Demokritos", R. Vlastou, **A. Kalamara**, M. Kokkoris, M. Serris, N. Patronis, M. Diakaki, A. Spiliotis, M. Georgoulakis, D. Sigalos, S. Hassapoglou, K. Kobothis, K. Krokidi, A. Lagoyannis, M. Axiotis, and S. Harissopoulos, HNPS Advances in Nucl. Phys. 24, 2017, DOI: [10.12681/hnps.1649](https://doi.org/10.12681/hnps.1649)
23. "Study of the $^{193}\text{Ir}(n,2n)^{192}\text{Ir}$ reaction cross section", N. Patronis, **A. Kalamara**, A. Lagoyannis, S. Harissopoulos, M. Kokkoris and R. Vlastou, HNPS Advances in Nucl. Phys. 24, 2017, DOI: [10.12681/hnps.1637](https://doi.org/10.12681/hnps.1637)
24. "Neutron-induced fission cross-section measurement of ^{234}U with monoenergetic beams in the keV and MeV range using MicroMegs detectors", A. Kanellakopoulos, A. Stamatopoulos, A. Tsinganis, M. Kokkoris, R. Vlastou, **A. Kalamara**, A. Lagoyannis, M. Axiotis, HNPS Advances in Nucl. Phys. 24, 2017, DOI: [10.12681/hnps.1670](https://doi.org/10.12681/hnps.1670)
25. "Activation cross section of the (n,2n) reaction on Hf isotopes", **A. Kalamara**, A. Spiliotis, M. Serris, M. Anastasiou, M. Diakaki, M. Kokkoris, N. Patronis, V. Paneta, M. Axiotis, A. Lagoyannis and R. Vlastou, HNPS Advances in Nucl. Phys. 23, 47-54, 2016, DOI: [10.12681/hnps.1701](https://doi.org/10.12681/hnps.1701)
26. "Neutron Beam Characterization at the Athens Tandem Accelerator NCSR "Demokritos"", R. Vlastou, D. Sigalos, **A. Kalamara**, M. Kokkoris, M. Anastasiou, M. Diakaki, M. Axiotis, A. Lagoyannis, , HNPS Advances in Nucl. Phys. 23, 34-38, 2016, DOI: [10.12681/hnps.1699](https://doi.org/10.12681/hnps.1699)
27. "Activation cross section of the (n,2n) reaction on ^{197}Au ", **A. Kalamara**, M. Serris, M. Anastasiou, M. Diakaki, M. Kokkoris, N. Patronis, V. Paneta, M. Axiotis, A. Lagoyannis and R. Vlastou, HNPS Advances in Nucl. Phys. 22, 2015, DOI: [10.12681/hnps.1723](https://doi.org/10.12681/hnps.1723)
28. "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, A. Lagoyannis, G. Provas and R. Vlastou, HNPS Advances in Nucl. Phys. 22, 2015, DOI: [10.12681/hnps.1722](https://doi.org/10.12681/hnps.1722)
29. "Measurement of the $^{241}\text{Am}(n,2n)^{240}\text{Am}$ cross section at 17.5 MeV", **A. Kalamara**, R. Vlastou, M. Diakaki, M. Kokkoris, M. Anastasiou, V. Paneta, M. Axiotis, A. Lagoyannis and N. Nikolis HNPS Advances in Nucl. Phys. 21, 2014, DOI: [10.12681/hnps.1809](https://doi.org/10.12681/hnps.1809) , URL: <https://eproceedings.epublishing.ekt.gr/index.php/hnps/article/view/2024/1809>
30. "High-energy neutron facility at the Athens Tandem Accelerator NCSR "Demokritos"", R. Vlastou, M. Anastasiou, **A. Kalamara**, M. Diakaki, M. Kokkoris, V. Paneta, M. Axiotis, A. Lagoyannis, N. G. Nicolis, M. Serris, HNPS Advances in Nucl. Phys. 21, 2014, DOI: [10.12681/hnps.1801](https://doi.org/10.12681/hnps.1801) , URL: <https://eproceedings.epublishing.ekt.gr/index.php/hnps/article/view/2015/1801>
31. "New measurements of the $^{241}\text{Am}(n,2n)^{240}\text{Am}$ cross section", **A. Kalamara**, M. Diakaki, R. Vlastou, M. Kokkoris, N. Nikolis, A. Tsinganis, S. Ashley, M. Axiotis, A. Lagoyannis, HNPS Advances in Nucl. Phys. 21, 2013, DOI: [10.12681/hnps.2036](https://doi.org/10.12681/hnps.2036)
32. "Monte Carlo MCNP modeling of a HPGe detector and its efficiency for extended sample geometry", **A. Kalamara**, M. Diakaki, R. Vlastou, M. Kokkoris, F. Androulakaki, G. Eleftheriou and V. Paneta HNPS Advances in Nucl. Phys. 21, 2013, DOI: [10.12681/hnps.2375](https://doi.org/10.12681/hnps.2375) , URL: <https://eproceedings.epublishing.ekt.gr/index.php/hnps/article/view/2498/2375>