CURRICULUM VITAE

Nikolaos Patronis

PhD in Physics

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Personal information

Name	**Nikolaos Patronis**
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E-mail	npatronis@uoi.gr
Nationality	Hellenic
Date of birth	31-Dec-1975

Work experience

Dates	2013 onwards
Name and address of employer	Nuclear Physics Laboratory, Dep. of Physics, The University of Ioannina, 45110 Ioannina, Greece
Type of business or sector	Academic Institution
Occupation or position held	Assistant Professor
Main activities and responsibilities	Research and Teaching

Dates	2009-2013
Name and address of employer	Nuclear Physics Laboratory, Dep. of Physics, The University of Ioannina, 45110 Ioannina, Greece
Type of business or sector	Academic Institution
Occupation or position held	Lecturer
Main activities and responsibilities	Research and Teaching

Dates	2008-2009
Name and address of employer	Nuclear Physics Laboratory, Dep. of Physics, The University of Ioannina, 45110 Ioannina, Greece
Type of business or sector	Academic Institution
Occupation or position held	Lecturer (PD 407)
Main activities and responsibilities	Research and Teaching

Dates	2006-2008
Name and address of employer	Institute for Nuclear and Radiation Physics, University of Leuven, B-3001 Leuven, Belgium
Type of business or sector	Academic Institution
Occupation or position held	Post doctoral researcher
Main activities and responsibilities	Research and Teaching

Dates	2005-2006
Name and address of employer	Department of Physics, National Technical University of Athens, 15780 Athens, Greece
Type of business or sector	Academic Institution
Occupation or position held	Post doctoral researcher
Main activities and responsibilities	Research

Dates	2004-2005
Name and address of employer	Nuclear Physics Laboratory, Dep. of Physics, The University of Ioannina, 45110 Ioannina, Greece
Type of business or sector	Academic Institution
Occupation or position held	Post doctoral researcher
Main activities and responsibilities	Research

Education and training

Dates	1999-2004
Name and type of organisation providing education/training	University of Ioannina, Greece
Title of qualification awarded	PhD in Physics
Dates	1993-1999
Name and type of organisation providing education and training	The University of Patra, Greece
Title of qualification awarded	Bachelor's degree in Physics

Teaching Experience

As post-graduate student

1. Student Laboratories of Electromagnetism, Physics Department, The University of Ioannina, academic years: 2000-2002.
2. Physics via the Excel package – Electromagnetism, Physics Department, The University of Ioannina, academic years: 1999-2004.
3. Nuclear Physics applications, Physics Department, The University of Ioannina, academic years: 2001-2004.

As a post-doctoral researcher of University of Leuven

1. Co-advisor at the bachelor thesis project – "Resonance nuclear reactions: The reaction $^{27}Al(p,\gamma)^{28}Si$", Instituut voor kern- en stralingsfysica, Departement natuurkunde en sterrenkunde, K.U.Leuven, academic years 2006-2007

As a Lecturer and later as Assistant Professor of the University of Ioannina

1. Student Laboratories of Electromagnetism, Physics Department, The University of Ioannina, academic years: 2008 – now.
2. Introduction to the computer science, Physics Department, The University of Ioannina, academic years 2008 – 2014.
3. Student laboratories for waves and optics, Physics Department, The University of Ioannina, academic years 2008-2009.
4. Computer Programming Languages, Physics Department, The University of Ioannina, academic years 2008 – now.
5. Modern Physics II: Introduction to Nuclear and Elementary Particle Physics, Physics Department, The University of Ioannina, academic year 2011 – now
6. Laboratories in Modern Physics II: Physics Department, The University of Ioannina,

academic years 2012- now.

7. Nuclear Physics (Postgraduate course): Physics Department, The University of Ioannina, academic years 2013-2014.
8. Invitation within the ERASMUS programme: Experimental Nuclear Physics Techniques/Nuclear Reactions, “Summer School on Acceleration and Applications of Heavy Ions”, University of Warsaw, Heavy Ions Laboratory, July 1-7 2012
9. Invitation within the ERASMUS programme: Experimental Nuclear Physics Techniques/Nuclear Reactions, “II Summer School on Acceleration and Applications of Heavy Ions”, University of Warsaw, Heavy Ions Laboratory, July 7-13 2013
10. Advisor of one Master's thesis project:
    Mrs Panagiota Grigoriadou; “Software development for neutron yield calculations with respect the energy and spatial distribution, using the ^{7}Li(p,n)^{7}Be and ^{3}H(d,n)^{4}He reactions”
11. Advisor of six bachelor thesis projects

Books — Lecture Notes for the Modern Physics II class: Nuclear and Elementary Particle Physics, Available on - line: http://nuclear.physics.uoi.gr

Research Subjects

Nuclear Reactions,Nuclear Astrophysics, Neutron Physics, Detector Development, Nuclear Structure, Nuclear Reactions and Structure studies with Radioactive Ion Beams

Research Experience

Publications in peer-reviewed journals — 95 papers: 19 of them conference papers; more than 1140 citations; h-factor (Scopus) = 19

Publications in conference proceedings — 68 papers

Referee service

1. Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment
2. Annals of Nuclear Energy
3. Applied Radiation and Isotopes

Research Programms

Title	CHANDA “Neutron beam profile at n_TOF EAR-2 using CR-39 passive neutron detectors”
Primary investigator	N. Patronis
Role	Spokesperson
Position	Assistant Professor – University of Ioannina
Dates	2014

Title	Heraklitos II
Primary investigator	Prof. A. Pakou
Role	Member of the main research team
Position	Lecturer – University of Ioannina
Dates	2009 - 2013

Title	Puthagoras II
Primary investigator	Prof. M. Kokkoris
Role	Post-doctoral researcher
Position	Post-doctoral researcher – National Technical university of Athens
Dates	2005- 2006

Title	Puthagoras I
Primary investigator	Prof. A. Pakou
Role	Post-doctoral researcher
Position	Post-doctoral researcher – University of Ioannina
Dates	2004- 2005

Title	Heraklitos I
Primary investigator	Prof. P. A. Assimakopoulos
Role	PhD candidate
Position	PhD candidate – University of Ioannina
Dates	2001- 2004

Personal skills and competences

Mother tongue: Greek

Other language(s)

	Reading	Writing	Speaking
English	Proficient user	Proficient user	Proficient user
German	Independent user	Independent user	Independent user

Social skills and competences

Team work: I have worked in various types of National and International Research Teams.

Inter-cultural skills: I am experienced at working in a European Large Scale Facilities (e.g. CERN) and International collaborations (e.g. ISOLDE, nTOF)

Administration skills and competences

- Elected member of the General Assembly of the Physics Dep. University of Ioannina (years 2009-now)
- Member of the student library committee of the Dep. of Physics - Univ. of Ioannina

- Group Leader of the Univ. of Ioannina nTOF-CERN collaboration
- Deputy Group Leader of the Univ. of Ioannina ISOLDE-CERN collaboration
- Representative of the Univ. of Ioannina for the NuSTAR-CALIBRA Research Infrastructure Proposal

Computer skills and competences

- Operating systems: Linux/UNIX, OS-X, Windows.
- Languages: C++, C, FORTRAN, some use of HTML and UNIX shell scripts
- Applications: LATEX, Mathematica, Spreadsheet-Editing and Presentation software.
- Data Analysis and Detector Simulation toolkits: ROOT, PAW, GEANT4, SIMNRA
- Algorithms-Nuclear Reaction Calculations: ECIS, FRESCO, STAPRE-F

Annexes

Annex 1: Research Activities

At the Nuclear Physics Laboratory of the University of Ioannina (2008-now):

1. Optical model calculations for the ^{17}F+p elastic scattering study.
2. Data acquisition and experimental setup for the backscattering experiments of ^{6,7}Li on Silicon at NCSR – "Demokritos" TANDEM accelerator.
3. Spokesperson/Realization of the IS-469 experiment at REX-ISOLDE facility at CERN: Study of the ^{68}Ni(d,p) reaction in inverse kinematics (KULeuven project).
4. ^{17}F+p experiment at the EXOTIC facility of INFN-LNL (Legnaro). Responsible person for the data analysis and publication.
5. Backscattering experiments of ^{6,7}Li+ ^{208}Pb, ^{116,120}Sn and ^{58}Ni at INFN-LNS (Catania).
6. Data analysis of the ^{17}F+p elastic scattering study.
7. Study of large-area/high-efficiency neutron detector array for reaction studies with radioctive ion beams.
8. Study of n,2n reactions for isotopes in the rare earth region
9. Software development for neutron yield calculations using the ^{7}Li(p,n)^{7}Be and ^{3}H(d,n)^{4}He reactions

At Katholieke Universiteit Leuven, Instituut voor Kern- en Stralingsfysica (2006-2008):

1. Transfer reactions of the neutron rich unstable isotopes at the N = 40 region: Monte-Carlo studies, DWBA calculations
2. Spokeperson - preperation of the IS-469 experiment at ISOLDE- CERN entitled as: "One neutron transfer reactions Around ^{68}Ni"
3. Coupling of multiplexing pre-amplifiers with digital electronics.
4. Coupling of double sided Si segmented detectors with multiplexing pre-amplifiers. Member of the development-team of the T-REX particle detection setup.
5. Data analysis of the beta-decay study of ^{77}Cu – experiment performed at ISOLDE-CERN

At CERN REX-ISOLDE facility (2006-now):

1. One-neutron transfer reaction: d(^{30}Mg,p)^{31}Mg.
2. Coulomb excitation experiment of the proton reach ^{184,186,188}Hg isotopes.
3. Coulomb excitation experiment of the odd mass unstable $^{67-73}$Cu isotopes.
4. Study of the one neutron transfer reaction: d(^{66}Ni,p)^{67}Ni – Spokesperson
5. Study of the two neutron transfer reaction : t(^{66}Ni,p)^{67}Ni
6. Study of the two neutron transfer reaction : t(^{30}Mg,p)^{32}Mg
7. β-delayed fission studies of ^{180}Tl.
8. Coulomb excitation experiment of ^{140}Ba.

At the TANDEM accelerator facility of NCSR " Demokritos ":

1. Experimentalist in charge for the ^{191}Ir(n,2n)^{190}Ir reaction study
2. Participation in the ^{232}Th(n, 2n) reaction study in the framework of the n_TOF collaboration.
3. Participation in the elastic scattering studies with the weakly bound ^{6}Li και ^{7}Li on Si target.

4. Participation in the break-up studies of ^{6}Li in Si target.
5. Participation in the ^{241}Am(n,2n) reaction study in the framework of the n_TOF collaboration.
6. Participation in backscattering reaction studies of ^{6,7}Li with ^{28}Si.
7. Participation in the study of the ^{10}B(p,pγ) and ^{10}B(p,aγ) reactions; experiment and data analysis (two bachelor thesis projects)
8. Participation to the study of the ^{24}Mg(d,p) reaction (one bachelor thesis project)
9. Experimentalist in charge for the ^{162}Er(n,2n)^{161}Er reaction study - Spokesperson

At the Laboratori Nazionali di Legnaro LNL-INFN (2008-2010)**:**

1. Elastic scattering for the system ^{17}F+^{58}Ni at near barrier energies with the EXOTIC facility
2. Elastic scattering for the system ^{17}F+p at the EXOTIC facility with DINEX Si detector array.

At the Physics Department of the National Technical University of Athens, as a post-doctoral researcher: (2005-2006)

1. Experimental and Monte Carlo study of the response function of the liquid – scintillator BC501A.
2. Study of the (n,xn) reactions on Ir, Ge and Hf isotopes.
3. Statistical model calculations.
4. Cross section measurements of ^{10}B(d,p)^{11}B reaction.

At the Nuclear Physics Laboratory of the University of Ioannina as PhD student and later as postdoctoral researcher (2002-2004):

1. Study of the breakup reaction of ^{6,7}Li on Silicon target at near-barrier energies.
2. Optical model calculations: Dispersion relation.
3. Study of the ^{135}Cs(n,γ)^{136}Cs reaction (Ph.D. Project).
4. Analysis of the experimental data of the ^{135}Cs(n,γ)^{136}Cs reaction (Ph.D. Project).
5. Participation in several experiments within the nTOF-CERN project

At the Forschungszentrum Karlsruhe (FZK), Institute für Kernphysik(2002-2004):

1. Study of the flux and energy spectrum of the neutron beam - reaction ^{7}Li(p,n)^{7}Be (Ph.D. Project).
2. Study of the ^{135}Cs(n,γ)^{136}Cs reaction at 30 and 500 keV (Ph.D. Project).
3. Monte Carlo simulations of the experimental setup for the study of ^{14}C (n,γ)^{15}C reaction.
4. Participation in the experiment for studying the ^{63}Ni(n, γ) cross-section.
5. Monte Carlo simulations of two clover HPGe Detectors in close detection geometry

At the University of Mainz –TRIGA reactor (2003):

1. Reactor irradiation – Characterization of ^{135}Cs sample

At the Leuven Isotope Separator On-Line (LISOL), Louvain-La-Neuve (2007):

1. Participation in the β-decay study of ^{71}Nı

At the GANIL – SPIRAL facility(2004, 2010):

1. Experimental study of the one neutron transfer reaction ^{26}Ne(d,p) ^{27}Ne.
2. Experimental study of reaction channels for the ^{8}He+^{208}Pb .

At the nTOF facility at CERN

1. Neutron flux Monte Carlo studies
2. Monte Carlo simulations studies of the experimental set-up (n+ d experiment)
3. Pulse-shape analysis studies with C_6D_6 & NE213 (University of Bari - Italy)
4. Participation in neutron reaction studies with several isotopes
5. Neutron beam profile at n_TOF EAR-2 using CR-39 passive neutron detectors

Annex 2:

Publications in peer-reviewed journals

1. C.A. Papachristodoulou, P.A. Assimakopoulos, N.E. Patronis, K.G. Ioannides: *Use of HPGe γ-ray Spectrometry to Assess the Isotopic Composition of Uranium in soils*, Journal of Environmental Radioactivity 64 (2003) 195-203.
2. D. Karamanis, P.A. Assimakopoulos , G. Doukellis, D.A. Karademos, A. Karydas, M. Kokkoris, S. Kossionides, N. Nicolis, A. Pakou, C. Papachristodoulou, C. Papadopoulos, N. Patronis, P. Pavlopoulos, G. Perdikakis, R. Vlastou: *Neutron cross section measurements in the Th-U cycle by the activation method*, Nuclear Instruments and Methods A, 505 (2003) 381-384.[conference paper]
3. A. Pakou, N. Alamanos, A. Lagoyannis, A. Gillibert, E.C. Pollacco, P.A. Assimakopoulos, G. Doukelis, K. Ioannides, D. Karadimos, D. Karamanis, M. Kokkoris, S. Kossionides, N.Nicolis, C. Papachristodoulou, N. Patronis, G. Perdikakis: *The elastic scattering of ^{6}Li+^{28}Si at near-barrier energies*, Physics Letters B 556 (2003) 21-26.
4. S. Dababneh, N. Patronis, P.A. Assimakopoulos, J. Göres, M. Heil, F. Käppeler, D. Karamanis, S. O'Brien and R. Reifart: *Gamma spectroscopy using two Clover detectors in close geometry*, Nuclear Instruments and Methods A, 517 (2004) 230-239.
5. N. Patronis, P.A Assimakopoulos, D. Karamanis, S. Dababneh, M. Heil, F. Käppeler, R. Plag, P. E. Koehler, A. Mengoni and R. Gallino: *Neutron capture studies on unstable ^{135}Cs for nucleosynthesis and transmutation*, Physical Review C 69 (2004) 025803.
6. A. Pakou, N. Alamanos, G. Doukelis, A. Gillibert, G. Kalyva, M. Kokkoris, E. Kossionides, A. Lagoyannis, A. Musumarra, C. Papachristodoulou, N. Patronis, G. Perdikakis, D. Pierroutsakou, E. C. Pollacco and K. Rusek: *Elastic scattering of ^{7}Li + ^{28}Si at near-barrier energies*, Physical Review C 69 (2004) 054602.
7. H. Nassar, S.Ghelberg, M. Paul, S. Dababneh, M. Heil, F. Käppeler, R. Plag, I. Ahmad, J.P. Greene, D.J. Henderson, C.L. Jiang, R.C. Pardo, T. Pennington, K.E. Rehm, R. Scott, S. Sinha, X. Tang, R. Vondrasek, H. Koivisto, D. Berkovits, M. Bettan, R. Reifarth, P. Collon, S. O'Brien and N. Patronis: *Production and isobaric separation of ^{63}Ni ions for determination of the $^{62}Ni(n,γ)^{63}Ni$ reaction cross section at stellar temperatures,* Nuclear Physics A, 746 (2004) 613-616. [conference paper]
8. H. Nassar, M. Paul, I. Ahmad, D. Berkovits, M. Bettan, P. Collon, S. Dababneh, S. Ghelberg, J. P. Greene, A. Heger, M. Heil, D. J. Henderson, C. L. Jiang, F. Käppeler, H. Koivisto, S. O'Brien, R. C. Pardo2, N. Patronis, T. Pennington, R. Plag, K. E. Rehm, R. Reifarth, R. Scott, S. Sinha, X. Tang, R. Vondrasek: *The stellar (n,γ) cross section of ^{62}Ni*, Physical Review Letters 94 (2005) 092504.
9. R. Reifarth, U. Besserer, S. Dababneh, L. Dörr, J. Görres, R. C. Haight, M. Heil, F. Käppeler, A. Mengoni, S. O'Brien, N. Patronis, R. Plag, R. S. Rundberg, M. Wiescher, and J. B. Wilhelmy: *Stellar neutron capture rates of ^{14}C*, Nuclear Physics A, 758 (2005) 787-790. [conference paper]
10. A. Obertelli, A. Gillibert, N. Alamanos, M. Alvarez, F. Auger, R. Dayras, A. Drouart, G. de France, B. Jurado, N. Keeley, V. Lapoux, W. Mittig, X. Mougeot, L. Nalpas, A. Pakou, N. Patronis, E.C. Pollacco, F. Rejmund, M. Rejmund, P. Roussel-Chomaz, H. Savajols, F. Skaza and Ch. Theisen: *Shell gap reduction in neutron rich N=17 nuclei*, Physics Letters B 633 (2006) 33-37.
11. A. Pakou, N. Alamanos, N. M. Clarke, N. J. Davis, G. Doukelis, G. Kalyva, M. Kokkoris, A. Lagoyiannis, A. Musumarra, N. G. Nicolis, C. Papachristodoulou, N. Patronis, G. Perdikakis, D. Pierroutsakou, D. Roubos, K. Rusek, A. Spyrou, and Ch. Zarkadas: The *^{6}Li exclusive*

breakup on ^{28}Si at 13 MeV, Physics Letters B 633 (2006) 691-695.

12. The n_TOF collaboration: *Neutron capture cross section of ^{232}Th measured at the n_TOF facility at CERN in the unresolved resonance region up to 1 MeV*, Physical Review C 73 (2006) 054610.
13. The n_TOF collaboration: *New measurement of neutron capture resonances of ^{209}Bi*, Physical Review C 74 (2006) 025807.
14. G. Perdikakis, C. T. Papadopoulos, R. Vlastou, A. Lagoyannis, A. Spyrou, M. Kokkoris, S. Galanopoulos, N. Patronis, Ch. Zarkadas, G. Kalyva, S. Kossionides, and the n_TOF collaboration: *Measurement of the ^{241}Am(n,2n) reaction cross section, by the activation method*, Physical Review C 73 (2006) 067601.
15. A. Obertelli, A. Gillibert, N. Alamanos, M. ALavarez, F. Auger, R. Dayras, A. Drouart, N. Keeley, V. Lapoux, X. Mougeot, L. Nalpas, E.C. Pollacco, F. Skaza and Ch. Theisen, G. de France, B. Jurado, W. Mittig, F. Bejsmud, M. Rejmud, P. Rousel-Chomaz, H. Savajol, A. Pakou and N. Patronis: *y spectroscopy of ^{25,27}Ne and ^{26,27}N,* Physical Review C 74 (2006) 064305.
16. The n_TOF collaboration: *Resonance capture cross section of ^{207}Pb*, Physical Review C 74 (2006) 055802.
17. G. Perdikakis, C. T. Papadopoulos, M. Kokkoris, R. Vlastou, S. Galanopoulos, A. Lagoyannis, A. Spyrou, G. Kalyva, N. Patronis and the n_TOF Collaboration: *Study of the ^{241}Am(n,2n)^{240}Am Reaction Cross Section in the Energy Range E_n=8.8-11.1 MeV*, Journal of Radioanalytical and nuclear Chemistry 272 (2007) 223. [conference paper]
18. N. Patronis, C.T. Papadopoulos, S. Galanopoulos, M. Kokkoris, G. Perdikakis, R. Vlastou, A. Lagoyannis and S. Harissopoulos: *Activation cross section and isomeric cross section ratio for the (n,2n) reaction on ^{191}Ir*, Physical Review C 75 (2007) 034607.
19. A. Gillibert, N. Alamanos, M. Alvarez, F. Auger, D. Beaumel, E. Becheva, Y. Blumenfeld, R. Dayras, F. Delaunay, A. Drouart, G. de France, L. Giot, B. Jurado, N. Keeley, K.W. Kemper, V. Lapoux, W. Mittig, X. Mougeot, L. Nalpas, A. Obertelli, N. Patronis, A. Pakou, E.C. Pollacco, R. Raabe, P. Roussel-Chomaz, F. Rejmund, M. Rejmund, H. Savajols, J.A. Scarpaci, J.L. Sida, F. Skaza, S. Stepantsov, Ch. Theisen and R. Wolski: *Structure of exotic nuclei from direct reactions*, Nuclear Physics A, 787 (2007) 423-432. [conference paper]
20. N. Patronis, M. Kokkoris, D. Giantsoudi, G.Perdikakis, C. T. Papadopoulos and R. Vlastou: *Aspects of Geant4 Monte-Carlo Calculations of the BC501A Neutron Detector,* Nuclear Instruments and Methods A, 578 (2007) 351-355.
21. The n_TOF collaboration: *Neutron reactions and nuclear cosmo-chronology*, Progress in Particle and Nuclear Physics 59 (2007) 165–173. [conference paper]
22. The n_TOF collaboration: *Measurement of the neutron capture cross section of the s-only isotope ^{204}Pb from 1 eV to 440 keV,* Physical Review C 75 (2007) 015806.
23. A. Gillibert, A. Obertelli, N. Alamanos, M. Alvarez, F. Auger, R. Dayras, A. Drouart, G. de France, B. Jurado, N. Keeley, V. Lapoux, W. Mittig, X. Mougeot, L. Nalpas, A. Pakou, N. Patronis, E. Pollacco, F. Rejmund, M. Rejmund, P. Roussel-Chomaz, H. Savajols, F. Skaza, and Ch. Theisen, *Study of N=16 for Ne isotopes,* European Physical Journal - Special Topics 150 (2007) 161-163. [conference paper]
24. The n_TOF collaboration: *The ^{139}La(n,y) cross-section: Key for the onset of the s-process,* Physical Review C 75 (2007) 035807.
25. M. Serris, S. Galanopoulos, C. A. Kalfas, M. Kokkoris, A. Lagoyannis, C. T. Papadopoulos,

N. Patronis, G. Perdikakis and R. Vlastou: *Study of the (n,2n) cross section of the ^{174}Hf isotope*, Nuclear Instruments and Methods B, 261 (2007) 941-944. [conference paper]

26. M. Kokkoris, V. Foteinou, G. Provatas, A. Kontos, N. Patronis, C.T. Papadopoulos, R. Vlastou, P. Misaelides, A. Lagoyannis and S. Harissopulos: *A Detailed study of the d+^{10}B System for Nuclear Reaction Analysis. Part A: The ^{10}B(d,p)^{11}B Reaction in the Energy Region $E_{d,lab}$=900-2000 keV,* Nuclear Instruments and Methods B, 263 (2007) 357-368.
27. The n_TOF collaboration: *Status and outlook of the neutron time-of-flight n_TOF at CERN*, Nuclear Instruments and Methods B, 261 (2007) 925-929. [conference paper]
28. The n_TOF collaboration: *Measurement of the radiative neutron capture cross section of ^{206}Pb and its astrophysical implications,* Physical Review C 76 (2007) 045805.
29. R. Reifarth, M. Heil, F. Käppeler, R. Plag,, C. Forssén, U. Besserer, A. Couture, S. Dababneh, L. Dörr, J. Görres, R.C. Haight, A. Mengoni, S. O'Brien, N. Patronis, R.S. Rundberg, M. Wiescher, and J.B. Wilhelmy: *The ^{14}C(n,y) cross section between 10 keV and 1 MeV,* Physical Review C 77 (2008) 015804
30. The n_TOF collaboration: *Nuclear physics for the Re/Os clock,* Journal of Physics G. 35 (2008) 014015. [conference paper]
31. The n_TOF collaboration: *The measurement of the ^{206}Pb(n,y) cross section and stellar implications,* Journal of Physics G. 35 (2008) 014020. [conference paper]
32. The n_TOF collaboration: *Neutron capture cross section of ^{90}Zr: Bottleneck in the s-process reaction flow,* Physical Review C 77 (2008) 035802.
33. I. Stefanescu G. Georgiev, D. L. Balabanski, N. Blasi, A. Blazhev, N. Bree, J. Cederkäll, T. E. Cocolios, T. Davinson, J. Eberth, A. Ekström, V.N. Fedosseev, L.M. Fraile, S. Franchoo, K. Gladnishki, M. Huyse, O. Ivanov, J. Iwanicki, J. Jolie, T. Konstantinopoulos, Th. Kröll1, R. Krücken, U. Köster, A. Lagoyannis, G. Lo Bianco, P. Maierbeck, B.A. Marsh, P. Napiorkowski, N. Patronis, D. Pauwels, G. Rainovski, P. Reiter, J. Van De Walle, P. Van Duppen, D. Voulot, N. Warr, D. Weisshaar, F. Wenander and K. Wrzosek: *Interplay between single-particle and collective effects in the odd-A Cu isotopes beyond N=40,* Physical Review Letters 100 (2008) 112502.
34. The n_TOF collaboration: *Experimental study of the ^{91}Zr(n,y) reaction up to 26 keV,* Physical Review C 78 (2008) 045804.
35. I. Stefanescu, D. Pauwels, N. Bree, T. E. Cocolios, J. Diriken, S. Franchoo, M. Huyse, O. Ivanov, Y. Kudryavtsev, N. Patronis, J. Van De Walle, P. Van Duppen, and W. B. Walters: *Evidence for a β-decaying 1/2$^-$ isomer in ^{71}Ni.* Physical Review C 79 (2009) 044325.
36. J. Van de Walle, V. Bildstein, N. Bree, J. Cederkäll, P. Delahaye, J. Diriken, A. Ekström4, V.N. Fedosseev, R. Gernhäuser2, A. Gustafsson, A. Herlert, M. Huyse, O. Ivanov, T. Kröll, R. Krücken, B. Marsh, N. Patronis, P. Van Duppen, D. Voulot, N. Warr, F. Wenander, K. Wimmer, and S.M. Lenzi: *In-trap decay of ^{61}Mn and Coulomb excitation of ^{61}Mn/^{61}Fe,* Eur. Phys. J. A (2009), DOI: 10.1140/epja/i2009-10814-6
37. K Zerva, N. Patronis, A. Pakou, N. Alamanos, X. Aslanoglou, D. Filipescu, T. Glodariu, M. Kokkoris, M. La Commara, A. Lagoayannis, M. Mazzocco, N.G. Nicolis, D. Pierroutsakou, M. Romoli, and K. Rusek: *Elastic backscattering measurements for 6Li+28Si at sub- and near-barrier energies.* Physical Review C 80 (2009) 017601.
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Annex 4:
Oral Presentations

1. *Proposed measurement of the n+n cross section at the n_TOF facility,* University of Ioannina, Open lectures, March 2002.
2. *The ^{135}Cs(n,γ) cross section at 30 and 500 keV*. n_TOF Winter School on Astrophysics, ADS and first results, Les Houches , Ecole de Physique, France, 24-28 February 2003.
3. *Study of ^{135}Cs(n,γ) reaction for nucleosynthesis and transmutation,* University of Ioannina, Open lectures, March 2003.
4. *Study of ^{135}Cs(n,γ) reaction for nucleosynthesis and transmutation,* University of Ioannina, PhD defense, 25 February 2004.
5. *Exclusive breakup of ^{6}Li on ^{28}Si target at near – barrier energies,* "14th Symposium of the Hellenic Nuclear Physics Society", School of Applied Mathematics and Natural Sciences, National Technical University of Athens, Athens, 21-22 May 2004.
6. *Cross section measurements of neutron induced reactions via the activation technique*, Instituut voor Kern- en Stralingsfysica, Departement Natuurkunde en Sterrenkunde, University of Leuven (K.U.Leuven), Seminar, 2 May 2006. (invited talk)
7. *Study of the ^{191}Ir(n,2n)^{190}Ir reaction cross section*, "16th Hellenic Symposium on Nuclear Physics", University of Athens, 26-27 May 2006.
8. *Transfer reactions at REX-ISOLDE: Status and a physical case to be studied*, Instituut voor Kern- en Stralingsfysica, Departement Natuurkunde en Sterrenkunde, University of Leuven (K.U.Leuven), Group Meeting, 15 May 2007.
9. *One Nucleon Transfer reactions at REX-ISOLDE Around ^{68}Ni*, Instituut voor Kern- en Stralingsfysica, Departement Natuurkunde en Sterrenkunde, University of Leuven (K.U.Leuven), Seminar - Scientific Meeting, 23 January 2008.
10. *One Nucleon Transfer reactions at REX-ISOLDE Around ^{68}Ni*, CERN, proposal defense - INTC Meeting, 11 February 2008.
11. *Transfer Reactions Around ^{68}Ni at REX-ISOLDE,* Nuclear Physics Research at the Myrrha Accelerator and Annual BRIX Network Meeting", SCK-CEN, Mol, 6-9 April 2008.
12. *Transfer Reactions Around ^{68}Ni at REX-ISOLDE*, Department of Physics – University of Ioannina, 20 May 2008. (invited talk)
13. *Analysis of elastic backscattering and fusion data for ^{6,7}Li + ^{28}Si at sub- and near-barrier energies: Probing the nuclear potential anomaly of weakly bound nuclei, ,* "18th Symposium of the Hellenic Nuclear Physics Society", N.C.S.R. "DEMOKRITOS", Athens, 29-30 May 2009.
14. *Elastic backscattering measurements for ^{6,7}Li+^{120}Sn and ^{6,7}Li+^{208}Pb at sub- and near barrier energies*, INFN-LNS Catania-Italy, PAC Meeting, 8 July 2009.
15. *One neutron transfer reactions around ^{68}Ni: First results from the ^{66}Ni(d,p)^{67}Ni experiment,* "21st Symposium of the Hellenic Nuclear Physics Society", N.C.S.R. "DEMOKRITOS", Athens, 25-26 May 2012.
16. *Transfer reactions at REX-ISOLDE: The ^{66}Ni(d,p)^{67}Ni experiment.* "1st One-Day Workshop on New Aspects and Perspectives in Nuclear Physics" University of Ioannina, 8th September 2012.
17. Neutron reaction studies in the rare earth region: First results for the ^{162}Er(n,2n)^{161}Er physics case, "23st Hellenic Nuclear Physics Society Symposium", Physics

Department, Aristotle University of Thessaloniki, Thessaloniki, 20-21 June 2014.

18. n,2n reaction studies in the rare earth region: NuSTAR kick-off meeting, Athens 2-3 February 2015.