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# CURRICULUM VITAE

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**Nikolaos Patronis**

PhD in Physics

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## Personal information

**Name** Nikolaos Patronis  
**Address** Nuclear Physics Laboratory, Dep. of Physics,  
The University of Ioannina, 451 10 Ioannina,  
Greece  
**Telephone** +30-26510-08551  
**Fax** +30-26510-08692  
**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	<ol style="list-style-type: none"><li>1. Student Laboratories of Electromagnetism, Physics Department, The University of Ioannina, academic years: 2000-2002.</li><li>2. Physics via the Excel package – Electromagnetism, Physics Department, The University of Ioannina, academic years: 1999-2004.</li><li>3. Nuclear Physics applications, Physics Department, The University of Ioannina, academic years: 2001-2004.</li></ol>
As a post-doctoral researcher of University of Leuven	<ol style="list-style-type: none"><li>1. Co-advisor at the bachelor thesis project – “Resonance nuclear reactions: The reaction <math>^{27}\text{Al}(p,\gamma)^{28}\text{Si}</math>”, Instituut voor kern- en stralingsfysica, Departement natuurkunde en sterrenkunde, K.U.Leuven, academic years 2006-2007</li></ol>
As a Lecturer and later as Assistant Professor of the University of Ioannina	<ol style="list-style-type: none"><li>1. Student Laboratories of Electromagnetism, Physics Department, The University of Ioannina, academic years: 2008 – now.</li><li>2. Introduction to the computer science, Physics Department, The University of Ioannina, academic years 2008 – 2014.</li><li>3. Student laboratories for waves and optics, Physics Department, The University of Ioannina, academic years 2008-2009.</li><li>4. Computer Programming Languages, Physics Department, The University of Ioannina, academic years 2008 – now.</li><li>5. Modern Physics II: Introduction to Nuclear and Elementary Particle Physics, Physics Department, The University of Ioannina, academic year 2011 – now</li><li>6. Laboratories in Modern Physics II: Physics Department, The University of Ioannina,</li></ol>

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  ${}^7\text{Li}(p,n){}^7\text{Be}$  and  ${}^3\text{H}(d,n){}^4\text{He}$  reactions"
11. Advisor of ten 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                    96 papers: 19 of them conference papers; more than 1190 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	Pthagoras II
Primary investigator	Prof. M. Kokkoris
Role	Post-doctoral researcher
Position	Post-doctoral researcher – National Technical university of Athens
Dates	2005- 2006
Title	Pthagoras 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)

*English*

*German*

	<u>Reading</u>	<u>Writing</u>	<u>Speaking</u>
<i>English</i>	Proficient user	Proficient user	Proficient user
<i>German</i>	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

Computer skills and  
competences

- 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
  
- 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  $^{17}\text{F}+p$  elastic scattering study.
2. Data acquisition and experimental setup for the backscattering experiments of  $^{6,7}\text{Li}$  on Silicon at NCSR – “Demokritos” TANDEM accelerator.
3. Spokesperson/Realization of the IS-469 experiment at REX-ISOLDE facility at CERN: Study of the  $^{68}\text{Ni}(d,p)$  reaction in inverse kinematics (KULeuven project).
4.  $^{17}\text{F}+p$  experiment at the EXOTIC facility of INFN-LNL (Legnaro). Responsible person for the data analysis and publication.
5. Backscattering experiments of  $^{6,7}\text{Li}+^{208}\text{Pb}$ ,  $^{116,120}\text{Sn}$  and  $^{58}\text{Ni}$  at INFN-LNS (Catania).
6. Data analysis of the  $^{17}\text{F}+p$  elastic scattering study.
7. Study of large-area/high-efficiency neutron detector array for reaction studies with radioactive ion beams.
8. Study of  $n,2n$  reactions for isotopes in the rare earth region
9. Software development for neutron yield calculations using the  $^7\text{Li}(p,n)^7\text{Be}$  and  $^3\text{H}(d,n)^4\text{He}$  reactions
10. Study of the  $^{193}\text{Ir}(n,2n)$  reaction.
11. Neutron beam spatial profile at EAR-2 at the nTOF facility at CERN

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 - preparation of the IS-469 experiment at ISOLDE- CERN entitled as: “One neutron transfer reactions Around  $^{68}\text{Ni}$ ”
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  $^{77}\text{Cu}$  – experiment performed at ISOLDE-CERN

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

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

At the TANDEM accelerator facility of NCSR “ Demokritos ”:

1. Experimentalist in charge for the  $^{191}\text{Ir}(n,2n)^{190}\text{Ir}$  reaction study
2. Participation in the  $^{232}\text{Th}(n, 2n)$  reaction study in the framework of the n\_TOF



collaboration.

3. Participation in the elastic scattering studies with the weakly bound  ${}^6\text{Li}$  και  ${}^7\text{Li}$  on Si target.
4. Participation in the break-up studies of  ${}^6\text{Li}$  in Si target.
5. Participation in the  ${}^{241}\text{Am}(n,2n)$  reaction study in the framework of the n\_TOF collaboration.
6. Participation in backscattering reaction studies of  ${}^{6,7}\text{Li}$  with  ${}^{28}\text{Si}$ .
7. Participation in the study of the  ${}^{10}\text{B}(p,p\gamma)$  and  ${}^{10}\text{B}(p,\alpha\gamma)$  reactions; experiment and data analysis (two bachelor thesis projects)
8. Participation to the study of the  ${}^{24}\text{Mg}(d,p)$  reaction (one bachelor thesis project)
9. Experimentalist in charge for the  ${}^{162}\text{Er}(n,2n){}^{161}\text{Er}$  reaction study - Spokesperson

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

1. Elastic scattering for the system  ${}^{17}\text{F}+{}^{58}\text{Ni}$  at near barrier energies with the EXOTIC facility
2. Elastic scattering for the system  ${}^{17}\text{F}+p$  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  ${}^{10}\text{B}(d,p){}^{11}\text{B}$  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  ${}^{6,7}\text{Li}$  on Silicon target at near-barrier energies.
2. Optical model calculations: Dispersion relation.
3. Study of the  ${}^{135}\text{Cs}(n,\gamma){}^{136}\text{Cs}$  reaction (Ph.D. Project).
4. Analysis of the experimental data of the  ${}^{135}\text{Cs}(n,\gamma){}^{136}\text{Cs}$  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  ${}^7\text{Li}(p,n){}^7\text{Be}$  (Ph.D. Project).
2. Study of the  ${}^{135}\text{Cs}(n,\gamma){}^{136}\text{Cs}$  reaction at 30 and 500 keV (Ph.D. Project).
3. Monte Carlo simulations of the experimental setup for the study of  ${}^{14}\text{C}(n,\gamma){}^{15}\text{C}$  reaction.
4. Participation in the experiment for studying the  ${}^{63}\text{Ni}(n,\gamma)$  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  $^{135}\text{Cs}$  sample

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

1. Participation in the  $\beta$ -decay study of  $^{71}\text{Ni}$

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

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

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  $\text{C}_6\text{D}_6$  & 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  $\gamma$ -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  ${}^6\text{Li}+{}^{28}\text{Si}$  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  ${}^{135}\text{Cs}$  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  ${}^7\text{Li} + {}^{28}\text{Si}$  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  ${}^{63}\text{Ni}$  ions for determination of the  ${}^{62}\text{Ni}(n,\gamma){}^{63}\text{Ni}$  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. Pardo, N. Patronis, T. Pennington, R. Plag, K. E. Rehm, R. Reifarth, R. Scott, S. Sinha, X. Tang, R. Vondrasek: *The stellar  $(n,\gamma)$  cross section of  ${}^{62}\text{Ni}$* , 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  ${}^{14}\text{C}$* , 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. Rousset-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. Lagoyannis, A. Musumarra, N. G. Nicolis, C. Papachristodoulou, N. Patronis, G. Perdikakis, D. Pierroutsakou, D. Roubos, K. Rusek, A. Spyrou, and Ch. Zarkadas: *The  ${}^6\text{Li}$  exclusive breakup on  ${}^{28}\text{Si}$  at 13 MeV*, Physics Letters B 633 (2006) 691-695.

12. The n\_TOF collaboration: *Neutron capture cross section of  $^{232}\text{Th}$  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  $^{209}\text{Bi}$* , 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  $^{241}\text{Am}(n,2n)$  reaction cross section, by the activation method*, Physical Review C 73 (2006) 067601.
15. A. Obertelli, A. Gillibert, N. Alamanos, M. Alvarez, 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. Bejismud, M. Rejmud, P. Rousel-Chomaz, H. Savajol, A. Pakou and N. Patronis:  *$\gamma$  spectroscopy of  $^{25,27}\text{Ne}$  and  $^{26,27}\text{N}$* , Physical Review C 74 (2006) 064305.
16. The n\_TOF collaboration: *Resonance capture cross section of  $^{207}\text{Pb}$* , 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  $^{241}\text{Am}(n,2n)^{240}\text{Am}$  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  $^{191}\text{Ir}$* , 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. Rousel-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  $^{204}\text{Pb}$  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. Rousel-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  $^{139}\text{La}(n,\gamma)$  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  $^{174}\text{Hf}$*

- isotope, Nuclear Instruments and Methods B, 261 (2007) 941-944. [conference paper]
26. M. Kokkoris, V. Foteinou, G. Provas, A. Kontos, N. Patronis, C.T. Papadopoulos, R. Vlastou, P. Misaelides, A. Lagoyannis and S. Harissopoulos: *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  $E_{d,\text{lab}}=900\text{-}2000$  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  $^{206}\text{Pb}$  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  $^{14}\text{C}(n,\gamma)$  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  $^{206}\text{Pb}(n,\gamma)$  cross section and stellar implications*, Journal of Physics G. 35 (2008) 014020. [conference paper]
  32. The n\_TOF collaboration: *Neutron capture cross section of  $^{90}\text{Zr}$ : 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. Kröll, 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  $^{91}\text{Zr}(n,\gamma)$  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  $\beta$ -decaying  $1/2^-$  isomer in  $^{71}\text{Ni}$* . Physical Review C 79 (2009) 044325.
  36. J. Van de Walle, V. Bildstein, N. Bree, J. Cederkäll, P. Delahaye, J. Diriken, A. Ekström, V.N. Fedosseev, R. Gernhäuser, 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  $^{61}\text{Mn}$  and Coulomb excitation of  $^{61}\text{Mn}^{61}\text{Fe}$* , 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. Pierrousakou, M. Romoli, and K. Rusek: *Elastic backscattering measurements for  $6\text{Li}+^{28}\text{Si}$  at sub- and near-barrier energies*. Physical Review C 80 (2009) 017601.
  38. The n\_TOF collaboration: *The n\_TOF Total Absorption Calorimeter for neutron capture measurements at CERN*, Nuclear Instruments and Methods A, 608 (2009) 424-433.
  39. The nTOF collaboration: *Astrophysics at nTOF facility*, Nuclear Physics and Atomic Energy, 10 (2009) 257-262. [conference paper]
  40. N. Patronis, H. De Witte, M. Gorska, M. Huyse, K. Kruglov, D. Pauwels, K. Van de Vel, P.

- Van Duppen, J. Van Roosbroeck, J.-C. Thomas, S. Franchoo, J. Cederkall, V. N. Fedoseyev, H. Fynbo, U. Georg, O. Jonsson, U. Koster, T. Materna, L. Mathieu, O. Serot, L. Weissman, W. F. Mueller, V. I. Mishin, and D. Fedorov:  $\beta$ -decay study of  $^{77}\text{Cu}$ . *Physical Review C* 80 (2009) 034307.
41. The n\_TOF collaboration: *High-accuracy  $^{233}\text{U}(n, f)$  cross-section measurement at the white-neutron source n\_TOF from near-thermal to 1 MeV neutron energy*, *Physical Review C* 80 (2009) 044604.
  42. The n\_TOF collaboration: *Neutron cross-sections for next generation reactors: New data from n\_TOF*, *Applied Radiation and Isotopes*, 68 (2010) 643-646. [conference paper]
  43. M. Mazzocco, A. Boiano, C. Boiano, A. Di Pietro, F. Farinon, P. Figuera, D. Filipescu, L. Fortunato, T. Glodariu, A. Guglielmetti, G. Inglima, M. La Commara, M. Lattuada, C. Mazzocchi, P. Molini, A. Musumarra, A. Pakou, C. Parascandolo, N. Patronis, D. Pierroutsakou, M. Romoli, M. Sandoli, V. Scuderi, C. Signorini, F. Soramel, L. Stroe, D. Torresi, E. Vardaci and A. Vitturi: *Scattering of  $^{17}\text{F}$  nuclei from a  $^{58}\text{Ni}$  target at energies around the Coulomb barrier*, *Nuclear Physics A*, 834 (2010) 488c-490c. [conference paper]
  44. The n\_TOF collaboration: *The  $^{92}\text{Zr}(n, \gamma)$  reaction and its implications for stellar nucleosynthesis*, *Physical Review C* 81 (2010) 055801.
  45. The nTOF collaboration: *Neutron physics of the Re/Os clock. I. Resonance analyses and stellar  $(n, \gamma)$  cross sections of  $^{186,187,188}\text{Os}$* , *Physical Review C* 82 (2010) 015802.
  46. The nTOF collaboration: *Neutron physics of the Re/Os clock. III. Resonance analyses and stellar  $(n, \gamma)$  cross sections of  $^{186,187,188}\text{Os}$* , *Physical Review C* 82 (2010) 015804.
  47. The nTOF collaboration: *The Neutron-induced fission cross section of  $^{234}\text{U}$  and  $^{237}\text{Np}$  measured at the CERN Neutron Time-of-Flight (nTOF) facility*, *Physical Review C* 82 (2010) 034601.
  48. K. Zerva, A. Pakou, K. Rusek, N. Patronis, N. Alamanos, X. Aslanoglou, D. Filipescu, T. Glodariu, N. Keeley, M. Kokkoris, M. La Commara, A. Lagoyannis, M. Mazzocco, N. G. Nicolis, D. Pierroutsakou, and M. Romoli: *Probing the potential and reaction coupling effects of  $^{6,7}\text{Li}+^{28}\text{Si}$  at sub- and near-barrier energies with elastic backscattering*, *Physical Review C* 82 (2010) 044607.
  49. M. Mazzocco, C. Signorini, D. Pierroutsakou, T. Glodariu, A. Boiano, C. Boiano, F. Farinon, P. Figuera, D. Filipescu, L. Fortunato, A. Guglielmetti, G. Inglima, M. La Commara, M. Lattuada, P. Lotti, C. Mazzocchi, P. Molini A. Musumarra, A. Pakou, C. Parascandolo, N. Patronis, M. Romoli, M. Sandoli, V. Scuderi, F. Soramel, L. Stroe, D. Torresi, E. Vardaci and A. Vitturi, *Reaction dynamics for the system  $^{17}\text{F} + ^{58}\text{Ni}$  at near-barrier energies*, *Physical Review C* 82 (2010) 054604.
  50. K. Wimmer, T. Kroll, R. Krucken, V. Bildstein, R. Gemhauser, B. Bastin, N. Bree, J. Diriken, P. Van Duppen, M. Huyse, N. Patronis, P. Vermaelen, D. Voulot, J. Van de Walle, F. Wenander, L. M. Fraile, R. Chapman, B. Hadinia, R. Orlandi, J. F. Smith, R. Lutter, P. G. Thirolf, M. Labiche, A. Blazhev, M. Kalkuhler, P. Reiter, M. Seidlitz, N. Warr, A. O. Macchiavelli, H. B. Jeppesen, E. Fiori, G. Georgiev, G. Schrieder, S. Das Gupta, G. Lo Bianco, S. Nardelli, J. Butterworth, J. Johansen, and K. Riisager: *Discovery of the shape coexisting  $0^+$  state in  $^{32}\text{Mg}$  by a two neutron transfer reaction*, *Physical Review Letters* 105 (2010) 252501.
  51. J. Diriken, I. Stefanescu, D. Balabanski, N. Blasi, A. Blazhev, N. Bree, J. Cederkall, T. E. Cocolios, T. Davinson, J. Eberth, A. Ekstrom, D. V. Fedorov, V. N. Fedosseev, L. M. Fraile,

- S. Franchoo, G. Georgiev, K. Gladnishki, M. Huysse, O. V. Ivanov, V. S. Ivanov, J. Iwanicki, J. Jolie, T. Konstantinopoulos, Th. Kroll, R. Krucken, U. Koster, A. Lagoyannis, G. Lo Bianco, P. Maierbeck, B. A. Marsh, P. Napiorkowski, N. Patronis, D. Pauwels, P. Reiter, M. Seliverstov, G. Sletten, J. Van de Walle, P. Van Duppen, D. Voulot, W. B. Walters, N. Warr, F. Wenander, and K. Wrzosek: *Coulomb excitation of  $^{73}\text{Ga}$* , Physical Review C 82 (2010) 064309.
52. A. N. Andreyev, J. Elseviers, M. Huysse, P. Van Duppen, S. Antalic, A. Barzakh, N. Bree, T. E. Cocolios, V. F. Comas, J. Diriken, D. Fedorov, V. Fedosseev, S. Franchoo, J. A. Heredia, O. Ivanov, U. Koster, B. A. Marsh, K. Nishio, R. D. Page, N. Patronis, M. Seliverstov, I. Tsekhanovich, P. Van den Bergh, J. Van De Walle, M. Venhart, S. Vermote, M. Veselsky, C. Wagemans, T. Ichikawa, A. Iwamoto, P. Moller, and A. J. Sierk: *New Type of Asymmetric Fission in Proton-Rich Nuclei*, Physical Review Letters 105 (2010) 252502.
53. The nTOF collaboration: *Neutron-induced fission cross-section of  $(233)\text{U}$  in the energy range  $0.5 < E(n) < 20$  MeV*, Eur. Phys. J. A (2011), DOI: 10.1140/epja/i2011-11002-y
54. The nTOF collaboration:  *$^{197}\text{Au}(n,\gamma)$  cross section in the unresolved resonance region*, Physical Review C 83 (2011) 034608.
55. The nTOF collaboration: *Neutron-induced fission cross section of  $^{238}\text{U}$  and  $^{235}\text{U}$  from threshold to 1 GeV: An improved parametrization*, Physical Review C 83 (2011) 044620.
56. The nTOF collaboration: *Neutron capture on  $^{94}\text{Zr}$ : Resonance parameters and Maxwellian-averaged cross sections*, Physical Review C 84 (2011) 015801.
57. J. Elseviers, A. N. Andreyev, S. Antalic, A. Barzakh, N. Bree, T. E. Cocolios, V. F. Comas, J. Diriken, D. Fedorov, V. N. Fedosseyev, S. Franchoo, J. A. Heredia, M. Huysse, O. Ivanov, U. Koster, B. A. Marsh, R. D. Page, N. Patronis, M. Seliverstov, I. Tsekhanovich, P. Van den Bergh, J. Van De Walle, P. Van Duppen, M. Venhart, S. Vermote, M. Veselsk, and C. Wagemans: *Shape coexistence in  $^{180}\text{Hg}$  studied through the  $\beta$ -decay of  $^{180}\text{Tl}$* , Physical Review C 84 (2011) 034307.
58. The nTOF collaboration: *Fission cross-section measurements of  $^{233}\text{U}$ ,  $^{245}\text{Cm}$  and  $^{241,243}\text{Am}$  at CERN nTOF facility*, Journal of the Korean Physical Society 59 (23) (2011) 1912.
59. The nTOF collaboration: *Neutron capture measurements on minor actinides at the nTOF facility at CERN: Past, present and future*, Journal of the Korean Physical Society 59 (23) (2011) 1809.
60. The nTOF collaboration: *High-energy neutron-induced fission cross sections of natural lead and bismuth-209*, Journal of the Korean Physical Society 59 (23) (2011) 1904.
61. The nTOF collaboration: *Study of photon strength function of actinides: The case of  $^{235}\text{U}$ ,  $^{238}\text{Np}$  and  $^{241}\text{Pu}$* , Journal of the Korean Physical Society 59 (23) (2011) 1510.
62. The nTOF collaboration:  *$^{237}\text{Np}(n,f)$  cross section: New data and present status*, Journal of the Korean Physical Society 59 (23) (2011) 1908.
63. The nTOF collaboration: *Measurement of the  $^{236}\text{U}(n,f)$  cross section from 170 meV to 2 MeV at the CERN n-TOF facility*, Physical Review C 84 (2011) 044618.
64. The nTOF collaboration:  *$^{96}\text{Zr}(n,\gamma)$  measurement at the n-TOF facility at CERN*, Physical Review C 84 (2011) 055802.
65. E. Rapisarda, I. Stefanescu, D. L. Balabanski, B. Bastin, A. Blazhev, N. Bree, M. Danchev, B. Bruyneel, T. Davinson, P. Delahaye, J. Diriken, J. Eberth, G. Georgiev, D. Fedorov, V. N. Fedosseev, E. Fiori, S. Franchoo, Ch. Fransen, K. Geibel, K. Gladnishki, K. Hadynska, H. Hess, K. Heyde, M. Huysse, O. Ivanov, J. Iwanicki, J. Jolie, M. Kalkuehler, Th. Kröll, R. Krücken, U. Koster, G. Lo Bianco, R. Lozeva, B. A. Marsh, S. Nardelli, F. Nowacki, N.

- Patronis, P. Reiter, M. Seidlitz, K. Sieja, N. Smirnova, J. Srebny, J. Van de Walle, P. Van Duppen, N. Warr, F. Wenander, K. Wimmer, K. Wrzosek, S. Zemlyanoi, and M. Zielinska: *Coulomb excitation of the 3- isomer in  $^{70}\text{Cu}$* , Physical Review C 84 (2011) 064323.
66. N. Patronis, A. Pakou, D. Pierroutsakou, A.M. Sanchez-Benitez, L. Acosta, N. Alamanos, A. Boiano, G. Inglima, D. Filipescu, T. Glodariu, A. Guglielmetti, M. La Commara, G. Lalazissis, I. Martel, C. Mazzocchi, M. Mazzocco, P. Molini, C. Parascandolo, M. Sandoli, C. Signorini, R. Silvestri, F. Soramel, E. Stiliaris, M. Romoli, A. Trzcinska, K. Zerva, E. Vardaci, and A. Vitturi: *Probing the  $^{17}\text{F}+p$  potential by elastic scattering at near barrier energies*, Physical Review C 85 (2012) 024609.
67. The nTOF collaboration: *Measurement and resonance analysis of the  $^{237}\text{Np}$  neutron capture cross section*, Physical Review C 85 (2012) 044616.
68. The nTOF collaboration: *Resonance neutron-capture cross sections of stable magnesium isotopes and their astrophysical implications*, Physical Review C 85 (2012) 044615.
69. G. Marquín-Durán, A.M. Sánchez Benítez, I. Martel, R. Berjillos, J. Dueñas, V.V. Parkar, L. Acosta, K. Rusek, M.A.G. Álvarez, J. Gómez-Camacho, M.J.G. Borge, C. Cruz, M. Cubero, V. Pesudo, O. Tengblad, A. Chbihi, J.P. Fernández-García, B. Fernández-Martínez, J.A. Labrador, A.H. Ziad, J.L. Flores, N. Keeley, L. Standylo, I. Strojek, M. Marques, M. Mazzocco, A. Pakou, N. Patronis, D. Pierroutsakou, R. Silvestri, R. Raabe, N. Soic, R. Wolski: *Scattering of  $^8\text{He}$  on  $^{208}\text{Pb}$  at Energies Around the Coulomb Barrier*, Acta Phys. Polonica B 43 (2012) 239. [conference paper]
70. Vinzenz Bildstein, Roman Gernhauser, Thorsten Kroll, Reiner Krucken, Kathrin Wimmer, Piet Van Duppen, Mark Huysse, Nikolas Patronis, and Riccardo Raabe for the T-REX Collaboration: *T-REX: A new setup for transfer experiments at REX-ISOLDE*, Eur. Phys. J. A 48 (2012): 85, DOI: 10.1140/epja/i2012-12085-6.
71. The nTOF collaboration: *Measurement of resolved resonances of  $^{232}\text{Th}(n,\gamma)$  at the n-TOF facility at CERN*, Physical Review C 85 (2012) 064801.
72. C. Bauer, T. Behrens, V. Bildstein, A. Blazhev, B. Bruyneel, J. Butterworth, E. Clément, L. Coquard, J. L. Egido, A. Ekström, C. R. Fitzpatrick, C. Fransen, R. Gernhäuser, D. Habs, H. Hess, J. Leske, T. Kröll, R. Krücken, R. Lutter, P. Marley, T. Möller, T. Otsuka, N. Patronis, A. Petts, N. Pietralla, T. R. Rodríguez, N. Shimizu, C. Stahl, I. Stefanescu, T. Stora, P. G. Thirolf, D. Voulot, J. van de Walle, N. Warr, F. Wenander, and A. Wiens: *Prolate shape of  $^{140}\text{Ba}$  from a first combined Doppler-shift and Coulomb-excitation measurement at the REX-ISOLDE facility*, Physical Review C 86 (2012) 034310.
73. K. Zerva, A. Pakou, N. Patronis, P. Figuera, A. Musumarra, A. Di Pietro, M. Fisichella, T. Glodariu, La Commara, M. Lattuada, M. Mazzocco, M.G. Pellegriti, D. Pierroutsakou, A.M. Sanchez-Benitez, V. Scuderi, E. Strano, and K. Rusek: *Quasi-elastic backscattering of  $^{6,7}\text{Li}$  on light, medium and heavy targets at near- and sub-barrier energies*, Eur. Phys. J. A 48 (2012): 102, DOI: 10.1140/epja/i2012-12102-x.
74. The nTOF collaboration: *Neutron-induced fission cross section measurement of  $^{233}\text{U}$ ,  $^{241}\text{Am}$  and  $^{243}\text{Am}$  in the energy range  $0.5\text{ MeV} < E_n < 20\text{ MeV}$  at n TOF at CERN*, Physical Scripta T150 (2012) 014005.
75. The nTOF collaboration: *The  $^{93}\text{Zr}(n,\gamma)$  reaction up to 8 keV neutron energy*, Physical Review C 87 (2013) 014622.
76. G. Marquín-Durán, A.M. Sánchez-Benitez, I. Martel, L. Acosta, K. Rusek, M.A.G.



- Álvarez, R. Berjillos, M.J.G. Borge, A. Chbihi, C. Cruz, M. Cubero, J.A. Dueñas, J.P. Fernández-García, B. Fernández-Martínez, J.L. Flores, J. Gómez-Camacho, N. Keeley, J.A. Labrador, M. Marqués, A.M. Moro, M. Mazzocco, A. Pakou, V.V. Parkar, N. Patronis, V. Pesudo, D. Pierroutsakou, R. Raabe, R. Silvestri, N. Soic, Ł. Standlyo, I. Strojek, O. Tengblad, R. Wolski, A.H. Ziad: Elastic Scattering of  $^8\text{He} + ^{208}\text{Pb}$  at 22 MeV, *Acta Phys. Plonica B* 44, (2013) 467 [conference paper]
77. M. Mazzocco, D. Torresi, N. Fierro, L. Acosta, A. Boiano, C. Boiano, T. Glodariu, A. Guglielmetti, M. La Commara, I. Martel, C. Mazzocchi, P. Molini, A. Pakou, C. Parascandolo, V.V. Parker, N. Patronis, D. Pierroutsakou, M. Romoli, A.M. Sanchez-Benitez, M. Sandoli, C. Signorini, R. Silvestri, F. Soramel, E. Stiliaris, E. Strano, L. Stroe, K. Zerva: Recent Results on Reaction with weakly bound nuclei, *Acta Phys. Plonica B* 44, (2013) 437 [conference paper]
78. The nTOF collaboration: Measurement of the neutron-induced fission cross-section of  $^{241}\text{Am}$  at the time-of-flight facility n\_TOF, *Eur. Phys. J. A* 49:2 (2013), DOI 10.1140/epja/i2013-13002-3
79. A. N. Andreyev, V. Liberati, S. Antalic, D. Ackermann, A. Barzakh, N. Bree, T. E. Cocolios, J. Diriken, J. Elseviers, D. Fedorov, V. N. Fedosseev, D. Fink, S. Franchoo, S. Heinz, F. P. Heßberger, S. Hofmann, M. Huysse, O. Ivanov, J. Khuyagbaatar, B. Kindler, U. Koster, J. F. W. Lane, B. Lommel, R. Mann, B. Marsh, P. Molkanov, K. Nishio, R. D. Page, N. Patronis, D. Pauwels, D. Radulov, S. Saro, M. Seliverstov, M. Sjodin, I. Tsekhanovich, P. Van den Bergh, P. Van Duppen, M. Venhart, and M. Veselsky:  $\alpha$ -decay spectroscopy of the chain  $^{179}\text{Tl}g \rightarrow ^{175}\text{Au}g \rightarrow ^{171}\text{I}rg \rightarrow ^{167}\text{Re}^m$ , *Physical Review C* 87 (2013) 054311.
80. N. Warr, J. Van de Walle, M. Albers, F. Ames, B. Bastin, C. Bauer, V. Bildstein, A. Blazhev, S. Bönig, N. Bree, B. Bruyneel, P. A. Butler, J. Cederkäll, E. Clément, T. E. Cocolios, T. Davinson, H. De Witte, P. Delahaye, D. D. DiJulio, J. Diriken, J. Eberth, A. Ekström, J. Elseviers, S. Emhofer, D. V. Fedorov, V. N. Fedosseev, S. Franchoo, C. Fransen, L. P. Gaffney, J. Gerl, G. Georgiev, R. Gernhäuser, T. Grahn, D. Habs, H. Hess, A. M. Hurst, M. Huysse, O. Ivanov, J. Iwanicki, D. G. Jenkins, J. Jolie, N. Kesteloot, O. Kester, U. Köster, M. Krauth, T. Kröll, R. Krücken, M. Lauer, J. Leske, K. P. Lieb, R. Lutter, L. Maier, B. A. Marsh, D. Mücher, M. Münch, O. Niedermaier, J. Pakarinen, M. Pantea, G. Pascovici, N. Patronis, D. Pauwels, A. Petts, N. Pietralla, R. Raabe, E. Rapisarda, P. Reiter, A. Richter, O. Schaile, M. Scheck, H. Scheit, G. Schrieder, D. Schwalm, M. Seidlitz, M. Seliverstov, T. Sieber, H. Simon, K. -H. Speidel, C. Stahl, I. Stefanescu, P. G. Thirolf, H. -G. Thomas, M. Thürauf, P. Van Duppen, D. Voulot, R. Wadsworth, G. Walter, D. Weißhaar, F. Wenander, A. Wiens, K. Wimmer, B. H. Wolf, P. J. Woods, K. Wrzosek-Lipska, K. O. Zell: The Miniball spectrometer, *Eur. Phys. J. A* 49:40 (2013), DOI 10.1140/epja/i2013-13040-9
81. O. Sgouros, V. Soukeras, A. Pakou, N. Patronis, K. Zerva, N. Keeley, I. Strojek, A. Trzcińska, E. Piasecki, K. Rusek, E. Stiliaris, M. Mazzocco: Backward angle structure in the  $^{20}\text{Ne} + ^{28}\text{Si}$  quasielastic scattering, *International Journal of Modern Physics E* 22 (2013) 1350073 DOI 10.1142/S0218301313500730
82. J. Elseviers, A. N. Andreyev, M. Huysse, P. Van Duppen, S. Antalic, A. Barzakh, N. Bree, T. E. Cocolios, V. F. Comas, J. Diriken, D. Fedorov, V. N. Fedosseev, S. Franchoo, L. Ghys, J. A. Heredia, O. Ivanov, U. Koster, B. A. Marsh, K. Nishio, R. D. Page, N. Patronis, M. D. Seliverstov, I. Tsekhanovich, P. Van den Bergh, J. Van De Walle, M. Venhart, S. Vermote,

- M. Veselsky and C. Wagemans:  $\beta$ -delayed fission of  $^{180}\text{Tl}$ , *Physical Review C* 88 (2013) 044321.
83. V. Liberati, A. N. Andreyev, S. Antalic, A. Barzakh, T. E. Cocolios, J. Elseviers, D. Fedorov, V. N. Fedoseev, M. Huyse, D. T. Joss, Z. Kalaninova, U. Koster, J. F. W. Lane, B. Marsh, D. Mengoni, P. Molkanov, K. Nishio, R. D. Page, N. Patronis, D. Pauwels, D. Radulov, M. Seliverstov, M. Sjodin, I. Tsekhanovich, P. Van den Bergh, P. Van Duppen, M. Venhart, and M. Veselsky:  $\beta$ -delayed fission and  $\alpha$  decay of  $^{178}\text{Tl}$ , *Physical Review C* 88 (2013) 044322.
84. V. Paneta, X. Aslanoglou, M. Axiotis, P. Gastis, M. Kokkoris, A. Lagoyannis, P. Misaelides, N. Patronis, R. Vlastou: Study of the  $^{24}\text{Mg}(d,p_0,1,2)$  reactions at energies and angles relevant to NRA, *Nuclear Instruments and Methods B*, 319 (2014) 34-38.
85. M. Mazzocco, D. Torresi, L. Acosta, A. Boiano, C. Boiano, N. Fierro, T. Glodariu, A. Guglielmetti, N. Keeley, M. La Commara, I. Martel, C. Mazzocchi, P. Molini, A. Pakou, C. Parascandolo, V.V. Parkar, N. Patronis, D. Pierroutsakou, M. Romoli, K. Rusek, A.M. Sanchez-Benitez, M. Sandoli, C. Signorini, R. Silvestri, F. Soramel, E. Stiliaris, E. Strano, L. Stroe, K. Zerva: Direct and Compound Nucleus Reactions for the System  $^7\text{Be} + ^{58}\text{Ni}$  at Near-barrier Energies, *Acta Phys. Polonica B* 45, (2014) 363 [conference paper]
86. The nTOF collaboration: Neutron-induced fission cross section of U-234 measured at the CERN n-TOF facility, *Physical Review C* 89 (2014) 044606.
87. N. Bree, K. Wrzosek-Lipska, A. Petts, A. Andreyev, B. Bastin, M. Bender, A. Blazhev, B. Bruyneel, P. A. Butler, J. Butterworth, M. P. Carpenter, J. Cederkäll, E. Clément, T. E. Cocolios, A. Deacon, J. Diriken, A. Ekström, C. Fitzpatrick, L. M. Fraile, Ch. Fransen, S. J. Freeman, L. P. Gaffney, J. E. García-Ramos, K. Geibel, R. Gernhäuser, T. Grahn, M. Guttormsen, B. Hadinia, K. Hadyńska-Kle, M. Hass, P.-H. Heenen, R.-D. Herzberg, H. Hess, K. Heyde, M. Huyse, O. Ivanov, D. G. Jenkins, R. Julin, N. Kesteloot, Th. Kröll, R. Krücken, A. C. Larsen, R. Lutter, P. Marley, P. J. Napiorkowski, R. Orlandi, R. D. Page, J. Pakarinen, N. Patronis, P. J. Peura, E. Piselli, P. Rahkila, E. Rapisarda, P. Reiter, A. P. Robinson, M. Scheck, S. Siem, K. Singh Chakkal, J. F. Smith, J. Srebrny, I. Stefanescu, G. M. Tveten, P. Van Duppen, J. Van de Walle, D. Voulot, N. Warr, F. Wenander, A. Wiens, J. L. Wood, and M. Zielińska: Shape coexistence in the neutron-deficient even-even Hg 182-188 isotopes studied via coulomb excitation, *Physical Review Letters* 112 (2014) 162701.
88. J. Diriken, N. Patronis, A.N. Andreyev, S. Antalic, V. Bildstein, A. Blazhev, I.G. Darby, H. De Witte, J. Eberth, J. Elseviers, V.N. Fedosseev, F. Flavigny, Ch. Fransen, G. Georgiev, R. Gernhäuser, H. Hess, M. Huyse, J. Jolie, Th. Kröll, R. Krücken, R. Lutter, B.A. Marsh, T. Mertzimekis, D. Muecher, F. Nowacki, R. Orlandi, A. Pakou, R. Raabe, G. Randisi, P. Reiter, T. Roger, M. Seidlitz, M. Seliverstov, K. Sieja, C. Sotty, H. Tornqvist, J. Van De Walle, P. Van Duppen, D. Voulot, N. Warr, F. Wenander, K. Wimmer: Study of the deformation-driving  $vd_{5/2}$  orbital in  $^{67}\text{Ni}$  using one-neutron transfer reactions, *Physics Letters B* 736 (2014) 533-538.
89. The nTOF collaboration: Measurement and analysis of the Am 243 neutron capture cross section at the n-TOF facility at CERN, *Physical Review C* 90 (2014) 034608.
90. N. Patronis, X. Aslanoglou, M. Axiotis, A. Georgiadou, M. Kokkoris, A. Lagoyannis, P. Misaelides, V. Paneta: Study of  $^{nat}\text{Mg}(d,d_0)$  reaction at detector angles between  $90^\circ$  and

170°, for the energy range  $E_{d,lab}=1660-1990$  keV, Nuclear Instruments and Methods B, 337 (2014) 97-101.

91. A. Lagoyannis, K. Preketes-Sigalas, M. Axiotis, V. Foteinou, S. Harissopoulos, M. Kokkoris, P. Misaelides, V. Paneta, N. Patronis: Study of the  $^{10}\text{B}(\text{p},\alpha\gamma)^7\text{Be}$  and  $^{10}\text{B}(\text{p},\text{p}'\gamma)^{10}\text{B}$  reactions for PIGE purposes, Nuclear Instruments and Methods B, 342 (2015) 271-276.
92. D Torresi, M. Mazzocco, L Acosta, A Boiano, C Boiano, A Diaz-Torres, N Fierro, T Glodariu, L Grijl, A Guglielmetti, N Keeley, M La Commara, I Martel, C Mazzocchi, P Molini, A Pakou, C Parascandolo, V V Parkar, N Patronis, D. Pierroutsakou, M Romoli, K. Rusek, A M Sanchez-Benitez, M Sandoli, C Signorini, R Silvestri, F Soramel, E Stiliaris, E Strano, L. Stroe, and K. Zerva: Reaction dynamics studies for the system  $^7\text{Be}+^{58}\text{Ni}$ , Journal of Physics: Conference Series 590 (2015) 012057 [conference paper]
93. The nTOF collaboration: High-accuracy determination of the  $^{238}\text{U}/^{235}\text{U}$  fission cross section ratio up to  $\approx 1$  GeV at n\_TOF at CERN, Physical Review C 91 (2015) 024602.
94. J. Diriken, N. Patronis, A.N. Andreyev, S. Antalic, V. Bildstein, A. Blazhev, I.G. Darby, H. De Witte, J. Eberth, J. Elseviers, V.N. Fedosseev, F. Flavigny, Ch. Fransen, G. Georgiev, R. Gernhauser, H. Hess, M. Huyse, J. Jolie, Th. Kröll, R. Krücken, R. Lutter, B.A. Marsh, T. Mertzimekis, D. Muecher, F. Nowacki, R. Orlandi, A. Pakou, R. Raabe, G. Randisi, P. Reiter, T. Roger, M. Seidlitz, M. Seliverstov, C. Sotty, H. Tornqvist, J. Van De Walle, P. Van Duppen, D. Voulot, N. Warr, F. Wenander, K. Wimmer: Experimental study of the  $^{66}\text{Ni}(\text{d}, \text{p})^{67}\text{Ni}$  one-neutron transfer reaction, Physical Review C 91 (2015) 054321.
95. The nTOF collaboration: The new vertical neutron beam line at the CERN n\_TOF facility design and outlook on the performance, Nuclear Instruments and Methods A, 799 (2015) 90-98.
96. A. Kalamara, R. Vlastou, M. Kokkoris, M. Diakaki, I, A. Tsinganis, N. Patronis, M. Axiotis, and A. Lagoyannis: Investigation of the  $^{241}\text{Am}(\text{n},2\text{n})^{240}\text{Am}$  cross section, Physical Review C 93 (2016) 014610.

Annex 3:  
Publications in Conference  
proceedings

1. C.A. Papachristodoulou, P.A. Assimakopoulos, N.E. Patronis and K.G. Ioannides: Use of HPGe gamma-ray spectroscopy to assess the isotopic composition of U in soil samples from Kosovo. Expert Meeting on Depleted Uranium in Kosovo: Radiation Protection, Public Health and Environmental Aspects", Bad Honnef, Germany, 19-22 June, 2001
2. D. Karamanis, S. Andriamonje, P. Assimakopoulos, G. Doukellis, D. Karademos, A. Karydas, M. Kokkoris, S. Kossiodides, N. Nicolis, A. Pakou, C. Papachristodoulou, C. Papadopoulos, N. Patronis, P. Pavlopoulos, G. Perdikakis, R. Vlastou for the APC Consortium and the n-TOF collaboration: Statistical model calculations of the  $^{232}\text{Th}(n, 2n)$  reaction. "12th Symposium of the Hellenic Nuclear Physics Society", NCSR "Demokritos", Athens, 10-11/5/02.
3. D. Karamanis, P. Assimakopoulos, G. Doukelis, D. Karademos, A. Karydas, M. Kokkoris, S. Kossionides, N. Nicolis, A. Pakou, C. Papachristodoulou, N. Patronis, P. Pavlopoulos, G. Perdikakis and R. Vlastou. Neutron cross section measurements in the Th-U cycle by the activation method. Symposium on Radiation Measurements and Applications, Ann Arbor, Michigan, USA, 21-23 May, 2002
4. N. Patronis, P. A. Assimakopoulos, S. Dababneh, M. Heil, F. Käppeler, D. Karamanis and R. Plag: The  $^{135}\text{Cs}(n,\gamma)$  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
5. Saed Dababneh, Panayotis A. Assimakopoulos, Sotirios Harissopoulos, Michael Heil, Franz Käppeler, Dimitrios Karamanis, Nikolas Patronis und Ralf Plag: The  $^{135}\text{Cs}(n,\gamma)$  cross section at 30, 200, and 500 keV, Deutsche Physikalische Gesellschaft e. V. (DPG) - Hadronen und Kerne, Universität Tübingen, Germany, 17-21 March 2003
6. P.A. Assimakopoulos, D. T. Karamanis, S. Kossionidis, C. Papachristodoulou, and N. Patronis: Proposed measurement of the n+n cross section at the n\_TOF facility. n\_TOF Winter School on Astrophysics, ADS and first results, Les Houches, Ecole de Physique, France, 24-28 February 2003
7. N. Patronis, P. A. Assimakopoulos, D. Karamanis, F. K Käppeler, S. Dababneh, M. Heil, R. Plag, and P.E. Koehler: The  $^{135}\text{Cs}(n,\gamma)$  cross section at 30 and 500 keV. "13th Symposium of the Hellenic Nuclear Physics Society", University of Ioannina, Ioannina, 30-31/5/03.
8. D. Karadimos, P. Assimakopoulos, K. Ioannides, N. Tsagas, P. Pavlopoulos, D. Karamanis, N. Patronis, K. Stamoulis, D. Cano Ott, V. Vlachoudis, P. Cennini, V. Ketterov, V. Konovalov and L. Zanini (For the n\_TOF collaboration):  $^{234}\text{U}(n,f)$ ,  $^{235}\text{U}(n,f)$  and  $^{238}\text{U}(n,f)$  cross section measurements with the FIC detector. "13th Symposium of the Hellenic Nuclear Physics Society", University of Ioannina, Ioannina, 30-31/5/03.
9. A. Pakou, N. Patronis, N. Alamanos, G. Doukelis, G. Kalyva, M. Kokkoris, S. Kossionides, A. Lagoyannis, A. Musumarra, N. G. Nicolis, G. Perdikakis, D. Pierroutsakou, E. C. Pollacco, K. Rusek and Ch. Zarkadas: Exclusive breakup of  $^6\text{Li}$  on a  $^{28}\text{Si}$  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, 21-22/5/04.
10. G. Perdikakis, C. T. Papadopoulos, R. Vlastou, A. Lagoyannis, A. Spyrou, M.

- Kokkoris, N. Patronis, D. Karamanis, Ch. Zarkadas, Y. Kalyva, P. Katsaroumpas, C. Kalfas, and S. Kossionides: Measurement of the  $^{241}\text{Am}(n,2n)$  cross section by the activation method. "14th Symposium of the Hellenic Nuclear Physics Society", School of Applied Mathematics and Natural Sciences, National Technical University of Athens, Athens, 21-22/5/04.
11. The n\_TOF Collaboration: Measurement of Capture Cross Sections of  $^{90,91,92,94,96}\text{Zr}$  Isotopes at n\_TOF. "International Conference on Nuclear Data For Science and Technology", Santa Fe, New Mexico 26 Spetember – 1 October 2004.
  12. The n\_TOF Collaboration: The n\_TOF Facility at CERN: Performances and First Physics Results. "International Conference on Nuclear Data For Science and Technology", Santa Fe, New Mexico 26 Spetember – 1 October 2004.
  13. The n\_TOF Collaboration: New Measurement of the Capture Cross Section of Bismuth and Lead Isotopes. "International Conference on Nuclear Data For Science and Technology", Santa Fe, New Mexico 26 Spetember – 1 October 2004.
  14. The n\_TOF Collaboration: Measurement of the  $^{232}\text{Th}$  Neutron Capture Cross Section at the CERN n\_TOF Facility. "International Conference on Nuclear Data For Science and Technology", Santa Fe, New Mexico 26 Spetember – 1 October 2004.
  15. The n\_TOF Collaboration: Measurements at n\_TOF of the Neutron Capture Cross Section of Minor Actinides Relevant to the Nuclear Waste Transmutation. "International Conference on Nuclear Data For Science and Technology", Santa Fe, New Mexico 26 Spetember – 1 October 2004.
  16. The n\_TOF Collaboration: Neutron Capture Cross Sections for the Re/Os Clock. "International Conference on Nuclear Data For Science and Technology", Santa Fe, New Mexico 26 Spetember – 1 October 2004.
  17. The n\_TOF Collaboration: High-Resolution Study of  $^{237}\text{Np}$  Fission Cross Section from 5 eV to 1 MeV. "International Conference on Nuclear Data For Science and Technology", Santa Fe, New Mexico 26 Spetember – 1 October 2004.
  18. 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  $^{14}\text{C}$ , "the Nuclei in the Cosmos VIII" - TRIUMF - Canada's National Laboratory for Particle and Nuclear Physics, Canada, Vancouver, 19-23/7/04.
  19. The n\_TOF Collaboration: Measurement of the resonance capture cross section of  $^{204,206}\text{Pb}$  and termination of the s-process, "Capture Gamma Ray Spectroscopy and Related Topics (cgs12)" Notre Dame, Indiana, USA, 4-9 September, 2005.
  20. The n\_TOF Collaboration: Measurement of  $^{139}\text{La}(n,\gamma)$  Cross Section, "Capture Gamma Ray Spectroscopy and Related Topics (cgs12)" Notre Dame, Indiana, USA, 4-9 September, 2005
  21. The n\_TOF Collaboration: Neutron capture cross section measurements at n\_TOF of  $^{237}\text{Np}$ ,  $^{240}\text{Pu}$  and  $^{243}\text{Am}$  for the transmutation of nuclear waste, "Capture Gamma Ray Spectroscopy and Related Topics (cgs12)" Notre Dame, Indiana, USA, 4-9 September, 2005
  22. G. Perdikakis, C. T. Papadopoulos, M. Kokkoris, R. Vlastou, S. Galanopoulos, A. Lagoyannis, A. Spyrou, Y. Kalyva, N. Patronis and the n\_TOF collaboration: Study of the  $^{241}\text{Am}(n,2n)^{240}\text{Am}$  Reaction Cross Section in the Energy Range  $E_n=8.8-11.1$  MeV, "International Conference APSORC05", Beijing China, October, 2005.

23. A. Obertelli, N. Alamanos, M. Alvarez, F. Auger, R. Dayras, A. Drouart, G. de France, A. Gillibert, 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 exotic N=17 nuclei, "Frontiers in Nuclear Structure Astrophysics, and Reactions", Isle of Kos, Greece, 12-17/9/2005.
24. The n\_TOF Collaboration: Implications of  $^{151}\text{Sm}(n,\gamma)$  Cross Section at n\_TOF, "Frontiers in Nuclear Structure Astrophysics, and Reactions", Isle of Kos, Greece, 12-17/9/2005.
25. G. Perdikakis, C. T. Papadopoulos, R. Vlastou, A. Lagoyannis, A. Spyrou, M. Kokkoris, N. Patronis, D. Karamanis, Ch. Zarkadas, G. Kalyva, C. Tsabaris and S. Kossionides: Measurement of the  $^{241}\text{Am}(n,2n)^{240}\text{Am}$  reaction cross section by the activation method, "Frontiers in Nuclear Structure Astrophysics, and Reactions", Isle of Kos, Greece, 12-17/9/2005.
26. The n\_TOF Collaboration: Measurement of  $^{139}\text{La}(n,\gamma)$  Cross Section at n\_TOF, "Frontiers in Nuclear Structure Astrophysics, and Reactions", Isle of Kos, Greece, 12-17/9/2005.
27. The n\_TOF Collaboration: Neutron cross section measurements at n-TOF for ADS related studies, EPS Euroconference XIX Nuclear Physics Divisional Conference: New Trends in Nuclear Physics Applications and Technology, Pavia, Italy, September 5-9 2005. [conference paper: Journal of Physics: Conference Series 41 (2006) 352]
28. S. Galanopoulos, M. Serris, G. Perdikakis, N. Patronis, M. Kokkoris, C. P. Papadopoulos, R. Vlastou, A. Lagoyannis, Ch. Zarkadas, S. Harissopoulos, C. A. Kalfas and P. Demetriou : Statistical model calculations on natural Ge, "16th Hellenic Symposium on Nuclear Physics", University of Athens, May 26-27 2006.
29. N. Patronis, C. P. Papadopoulos, S. Galanopoulos, S. Harissopoulos, M. Kokkoris, A. Lagoyannis, G. Perdikakis and R. Vlastou : Study of the  $^{191}\text{Ir}(n,2n)^{190}\text{Ir}$  reaction cross section, "16th Hellenic Symposium on Nuclear Physics", University of Athens, May 26-27 2006.
30. M. Serris, S. Galanopoulos, G. Perdikakis, N. Patronis, M. Kokkoris, C. P. Papadopoulos, R. Vlastou, A. Lagoyannis and C. A. Kalfas : Study of the (n,2n) reaction cross section on  $^{174}\text{Hf}$  isotope, "16th Hellenic Symposium on Nuclear Physics", University of Athens, May 26-27 2006.
31. R. Reifarh, M. Heil, R. Plag, U. Besserer, A. Couture, S. Dababneh, L. Dörr, C. Forssén, J. Görres, R.C. Haight, A. Mengoni, S. O'Brien, N. Patronis, R.S. Rundberg, E. Uberseder, M. Wiescher, J.B. Wilhelmy: Direct measurement of stellar neutron capture rates of  $^{14}\text{C}$  and comparison with the Coulomb breakup method, "Nuclei in the Cosmos IX", CERN, Geneva, June 25-30 2006.
32. The n\_TOF Collaboration: Measurement at n\_TOF of the  $^{237}\text{Np}(n,\gamma)$  and  $^{240}\text{Pu}(n,\gamma)$  cross sections for the transmutation of nuclear waste, American Nuclear Society's Topical Meeting on Reactor Physics – PHYSOR-2006, Vancouver, Canada, September 10-14, 2006
33. The n\_TOF Collaboration: Measurement of the neutron capture cross section of  $^{234}\text{U}$  in n\_TOF at CERN, American Nuclear Society's Topical Meeting on Reactor Physics – PHYSOR-2006, Vancouver, Canada, September 10-14, 2006
34. The n\_TOF Collaboration: Measurement of the neutron capture cross section of  $^{236}\text{U}$ ,

- American Nuclear Society's Topical Meeting on Reactor Physics – PHYSOR-2006, Vancouver, Canada, September 10-14, 2006
35. R.Vlastou, C.T.Papadopoulos, M.Kokkoris, G.Perdikakis, S.Galanopoulos, N.Patronis, M.Serris, S.Harissopoulos and P.Demetriou, Isomeric cross sections of neutron induced reactions on Ge and Ir Isotopes, “International Conference on Nuclear Data for Science and Technology 2007”, Nice, France, April 22-27, 2007
  36. The n\_TOF Collaboration: Measurement of the Neutron Induced Fission Cross Section on Transuranic (TRU) Elements at the n\_TOF Facility at CERN, VII Latin American Symposium on Nuclear Physics and Applications, Cusco, Peru, June 11-16, 2007
  37. N. Patronis, R. Raabe, V. Bildstein, N. Bree, R. Gernhäuser, M. Huyse, Th. Kröll, R. Krücken, M. Mahgoub, P. Maierbeck, I. Stefanescu, J. Van De Walle and P. Van Duppen, One Nucleon Transfer Reactions Around  $^{68}\text{Ni}$  at REX-ISOLDE, International Conference on Frontiers in Nuclear Structure, Astrophysics and Reactions, Agios Nikolaos, Crete, Greece, September 10-14, 2007
  38. The n\_TOF Collaboration: Recent Results at n\_TOF and Future Perspective, IXth Torino Workshop on Evolution and Nucleosynthesis in AGB Stars and the IIND Perugia Workshop on Nuclear Astrophysics, Perugia, Italy, October 22-26, 2007
  39. N. Patronis, V. Bildstein, N. Bree, J. Diriken, R. Gernhäuser, M. Huyse, T. Kröll, R. Krücken, M. Mahgoub, P. Maierbeck, R. Raabe, J. Van de Walle and P. Van Duppen, Single Particle Character Around  $^{68}\text{Ni}$ : The study of  $^{66}\text{Ni}(d,p)^{67}\text{Ni}$  at REX-ISOLDE, International Conference “EURORIB’08”, Giens, France, June 9-13, 2008
  40. Th. Kroll, T. Behrens, R. Krucken, V. Bildstein, T. Faestermann, R. Gernhäuser, M. Mahgoub, P. Maierbeck, M. Mönch, W. Weinzierl, F. Ames, D. Habs, O. Kester, R. Lutter, T. Morgan, M. Pasini, K. Rudolph, P. Thirolf, J. Diriken, M. Huyse, O. Ivanov, P. Mayet, N. Patronis, I. Stefanescu, J. Van de Walle, P. Van Duppen, O. Niedermaier, H. Scheit, D. Schwalm, J. Eberth, F. Finke, D. Martin, P. Reiter, A. Scherillo, M. Seidlitz, N. Warr, D. Weisshaar, J. Iwanicki, P. Butler, J. Cederkall, E. Clement, P. Delahaye, L. M. Fraile, G. Georgiev, U. Koster, T. Sieber, D. Voulot, F. Wenander, S. Franchoo, A. Hurst, A. Ekstrom, P. E. Kent, K.-H. Speidel, J. Leske, S. Schielke, A. Jungclaus, V. Modamio, J. Walker, L. Coquard, M. Pantea, N. Pietralla, T. Davinson, and S. Nardelli: Quadrupole collectivity of neutron-rich nuclei around  $^{132}\text{Sn}$ ; International Conference on Frontiers in Nuclear Structure, Astrophysics and Reactions, Agios Nikolaos, Crete, Greece, September 10-14, 2007
  41. A. Petts, P. A. Butler, T. Grahn, A. Blazhev, N. Bree, B. Bruyneel, J. Cederkäll, E. Clement, T. E. Cocolios, A. Dewald, J. Eberth, L. Fraile, C. Fransen, M. B. Gómez Hornillos, P. T. Greenlees, A. Görgen, M. Guttormsen, K. Hadynska, K. Helariutta, R.-D. Herzberg, M. Huyse, D. G. Jenkins, J. Jolie, P. Jones, R. Julin, S. Juutinen, S. Ketelhut, S. Knapen, T. Kröll, R. Krücken, A. C. Larsen, M. Leino, J. Ljungvall, P. Maierbeck, P. L. Marley, B. Melon, P. J. Napiorkowski, M. Nyman, R. D. Page, J. Pakarinen, G. Pascovici, N. Patronis, P. J. Peura, E. Piselli, Th. Pissulla, P. Rahkila, P. Reiter, J. Sarén, M. Scheck, C. Scholey, A. Semchenkov, S. Siem, I. Stefanescu, J. Sorri, J. Uusitalo, J. Van de Walle, P. Van Duppen, D. Voulot, R. Wadsworth, N. Warr, D. Weisshaar, F. Wenander, and M. Zielinska: Lifetime Measurements and Coulomb Excitation of Light Hg Nuclei; 13th International Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, August 25–29, 2008

42. The n\_TOF Collaboration: nTOF Experiment: Past, Present And Future, First Ulaanbaatar Conference on Nuclear Physics and Applications, Ulaanbaatar, Mongolia, September 8–11, 2008
43. The n\_TOF Collaboration: Neutron Capture Measurements at the nTOF Facility, First Ulaanbaatar Conference on Nuclear Physics and Applications, Ulaanbaatar, Mongolia, September 8–11, 2008
44. Th. Kröll, V. Bildstein, K. Wimmer, R. Krücken, R. Gernhäuser, R. Lutter, W. Schwerdtfeger, P. Thirof, B. Bastin, N. Bree, J. Diriken, M. Huyse, N. Patronis, R. Raabe, P. Van Duppen, P. Vermaelen, J. Cederkäll, E. Clément, J. Van de Walle, D. Voulot, F. Wenander, A. Blazhev, M. Kalkühler, P. Reiter, M. Seidlitz, N. Warr, A. Deacon, C. Fitzpatrick, S. Freeman, S. Das Gupta, G. Lo Bianco, S. Nardelli, E. Fiori, G. Georgiev, M. Scheck, L. M. Fraile, D. Balabanski, T. Nilsson, E. Tengborn, J. Butterworth, B. S. Nara Singh, L. Angus, R. Chapman, B. Hadinia, R. Orlandi, J. F. Smith, P. Wady, G. Schrieder, M. Labiche, J. Johansen, K. Riisager, H. B. Jeppesen, A. O. Macchiavelli, and T. Davinson: Transfer Reactions on Neutron-rich Nuclei at REX-ISOLDE; Nuclear Structure and Dynamics '09: Proceeding of the international conference, Dubrovnik, Croatia, May 4-8, 2009
45. The n\_TOF Collaboration: Fission cross-section measurements on  $^{233}\text{U}$  and minor actinides at the CERN n\_TOF facility; 4Th International Workshop on Nuclear Fission and Fission-Product Spectroscopy, Chateau de Cadarache, France, May 13-16, 2009
46. The n\_TOF Collaboration: Study of Neutron-Induced Fission Cross Sections of U, Am, and Cm at nTOF; VIII Latin American Symposium on Nuclear Physics and Applications, Santiago, Chile, December 15-19, 2010
47. The n\_TOF Collaboration: Astrophysics at nTOF; VIII Latin American Symposium on Nuclear Physics and Applications, Santiago, Chile, December 15-19, 2010
48. The n\_TOF Collaboration: The  $^{237}\text{Np}(n,f)$  cross section at the CERN n-TOF facility; Frontiers in Nuclear Structure Astrophysics and Reactions - FINUSTAR 3, Rhodes, Greece, August 23-27, 2010
49. M Mazzocco, C Signorini, D Pierrousakou, T Glodariu, A Boiano, C Boiano, F. Farinon, P Figuera, D. Filipescu, L Fortunato, A Guglielmetti, G Inghima, M. La Commara, M Lattuada, P Lotti, C Mazzocchi, P Molini, A Musumarra, A Pakou, C Parascandolo, N Patronis, M Romoli, M Sandoli, V Scuderi, F Soramel, L Stroe, D Torresi, E Vardaci and A Vitturi: *Strong reaction channels for the system  $^{17}\text{F} + ^{58}\text{Ni}$  at Coulomb barrier energies*; International Nuclear Physics Conference 2010 (INPC2010), Vancouver, Canada, July 4-9, 2010 [conference paper: Journal of Physics: Conference Series 312 (2011) 082032]
50. The n\_TOF Collaboration: *Astrophysics at n-TOF facility at CERN*; 49. International Nuclear Physics Conference 2010 (INPC2010), Vancouver, Canada, July 4-9, 2010 [conference paper: Journal of Physics: Conference Series 312 (2011) 042024]
51. N. Patronis, J. Diriken, A. Andreyev, S. Antalic, V. Bildstein, A. Blazhev, Y. Blumenfeld, B. Bruyneel, I.G. Darby, H. De Witte, J. Elseviers, M. Eriksson, V. Fedosseev, G. Georgiev, R. Gernhäuser, A. Herlert, M. Huyse, J. Jolie, T. Kröll, R. Krücken, R. Lutter, B.A. Marsh, T. Mertzimekis, D. Mucher, R. Orlandi, A. Pakou, E. Piselli, R. Raabe, P. Reiter, T. Roger, M. Seidlitz, M. Seliverstov, E. Siesling, T. Stora, H. Tornqvist, J. Van de Walle, P. Van Duppen, D. Voulot, N. Warr, F. Wenander, K. Wimmer: *One neutron transfer reactions around  $^{68}\text{Ni}$ : First results from the*



- $^{66}\text{Ni}(d,p)^{67}\text{Ni}$  experiment; "21st Hellenic Symposium on Nuclear Physics", NCSR "Demokritos", Athens, May 25-26 2012.
52. K. Zerva, A. Pakou, N. Patronis, N. Alamanos, A. Di Pietro, P. Figuera, M. Fischella, T. Glodariu, N. Keeley, M. La Commara, M. Mattuada, M. Mazzocco, A. Musumarra, A. Sanchez Benitez, V. Scuderi, E. Strano, M.G. Pellegriti, D. Pieroutsakou, K. Rusek: *Elastic backscattering measurements and optical potential analysis for the systems  $^{6,7}\text{Li} + ^{58}\text{Ni}$ ,  $^{116,120}\text{Sn}$ ,  $^{208}\text{Pb}$  at sub- and near-barrier energies*; "1st One-Day Workshop on New Aspects and Perspectives in Nuclear Physics" HINP University of Ioannina, 8th September 2012.
53. V. Soukeras, O. Sgouros, A. Pakou, I. Strojek, A. Trzcinska, N. Alamanos, N. Keeley, M. Mazzocco, N. Patronis, E. Piasecki, K. Rusek, E. Stiliaris, K. Zerva: *Study of the reaction  $^{20}\text{Ne} + ^{28}\text{Si}$ : Elastic scattering at near barrier energies*; "1st One-Day Workshop on New Aspects and Perspectives in Nuclear Physics" HINP University of Ioannina, 8th September 2012.
54. O. Sgouros, V. Soukeras, A. Pakou, I. Strojek, A. Trzcinska, N. Alamanos, N. Keeley, M. Mazzocco, N. Patronis, E. Piasecki, K. Rusek, E. Stiliaris, K. Zerva: *Study of the reaction  $^{20}\text{Ne} + ^{28}\text{Si}$ : Transfer reactions at near barrier energies*; "1st One-Day Workshop on New Aspects and Perspectives in Nuclear Physics" HINP University of Ioannina, 8th September 2012.
55. N. Patronis, J. Diriken, A. Andreyev, S. Antalic, V. Bildstein, A. Blazhev, Y. Blumenfeld, B. Bruyneel, I.G. Darby, H. De Witte, J. Elseviers, M. Eriksson, V. Fedosseev, G. Georgiev, R. Gernhauser, A. Herlert, M. Huyse, J. Jolie, T. Kröll, R. Krücken, R. Lutter, B.A. Marsh, T. Mertzimekis, D. Mucher, R. Orlandi, A. Pakou, E. Piselli, R. Raabe, P. Reiter, T. Roger, M. Seidlitz, M. Seliverstov, E. Siesling, T. Stora, H. Tornqvist, J. Van de Walle, P. Van Duppen, D. Voulot, N. Warr, F. Wenander, K. Wimmer: *Transfer reactions at REX-ISOLDE: The  $^{66}\text{Ni}(d,p)^{67}\text{Ni}$  experiment*; "1st One-Day Workshop on New Aspects and Perspectives in Nuclear Physics" HINP University of Ioannina, 8th September 2012.
56. M. Mazzocco, D. Torresi, N. Fierro, L. Acosta, A. Boiano, C. Boiano, T. Glodariu, A. Guglielmetti, M. La Commara, I. Martel, C. Mazzocchi, P. Molini, A. Pakou, C. Parascandolo, V. V. Parker, N. Patronis, D. Pieroutsakou, M. Romoli, A. M. Sanchez-Benitez, M. Sandoli, C. Signorini, R. Silvestri, F. Soramel, E. Stiliaris, E. Strano, L. Stroe and K. Zerva: *Scattering process for the system  $^7\text{Be} + ^{58}\text{Ni}$  at 23.2 MeV beam energy*, 11th International Conference on Nucleus-Nucleus Collisions, NN 2012; San Antonio, TX; United States; 27 May 2012 through 1 June 2012 [conference paper: Journal of Physics: Conference Series 420 (2013) 012077]
57. N. Patronis, V. Tsamis, K. Stamoulis and K. Ioannides: Characterization of Canberra BE3825 Broad Energy High Purity Germanium Detector by means of Geant4 Monte-Carlo calculations; "22nd Symposium of the Hellenic Nuclear Physics Society", University of Athens, Athens, 31.05-1.062013.
58. G. Marquinez-Durán, A. M. Sánchez-Benítez, I. Martel, L. Acosta, K. Rusek, M. A. G. Álvarez, R. Berjillos, M. J. G. Borge, A. Chbihi, C. Cruz, M. Cubero, J. A. Dueñas, J. P. Fernández-García, B. Fernández-Martínez, J. L. Flores, J. Gómez-Camacho, N. Keeley, J. A. Labrador, M. Marqués, A. M. Moro, M. Mazzocco, A. Pakou, V. V. Parkar, N. Patronis, V. Pesudo, D. Pieroutsakou, R. Raabe, R. Silvestri, N. Soic, . Standlylo, I. Strojek, O. Tengblad, R. Wolski, and A. H. Ziad: *Scattering of  $^8\text{He}$  on  $^{208}\text{Pb}$*

- at 22 MeV; La Rabida 2012 International Scientific Meeting on Nuclear Physics - Basic Concepts in Nuclear Physics: Theory, Experiments, and Applications; La Rabida; Spain; 9 September 2012 through 13 September 2012 [conference paper: AIP Conf. Proc. 1541, 175 (2013); <http://dx.doi.org/10.1063/1.4810834>]
59. G. Marquín-Durán, A.M. Sánchez-Benítez, I. Martel, L. Acosta, K. Rusek, M.A.G. Álvarez, R. Berjillos, M.J.G. Borge, A. Chbihi, C. Cruz, M. Cubero, J.A. Dueñas, J.P. Fernández-García, B. Fernández-Martínez, J.L. Flores, J. Gómez-Camacho, N. Keeley, J.A. Labrador, M. Marqués, A.M. Moro, M. Mazzocco, A. Pakou, V.V. Parkar, N. Patronis, V. Pseudo, D. Pierrotsakou, R. Raabe, R. Silvestri, N. Soic, Ł. Standylo, I. Strojek, O. Tengblad, R. Wolski and A.H. Ziad: Near barrier scattering of  $^8\text{He}$  on  $^{208}\text{Pb}$ ; EPJ Web of Conferences 66 (2014) 03058; doi: <http://dx.doi.org/10.1051/epjconf/20146603058>
60. M. Mazzocco, D. Torresi, L. Acosta, A. Boiano, C. Boiano, N. Fierro, T. Glodariu, A. Guglielmetti, N. Keeley, M. La Commara, I. Martel, C. Mazzocchi, P. Molini, A. Pakou, C. Parascandolo, V.V. Parkar, N. Patronis, D. Pierrotsakou, M. Romoli, K. Rusek, A.M. Sanchez-Benitez, M. Sandoli, C. Signorini, R. Silvestri, F. Soramel, E. Stiliaris, E. Strano, L. Stroe and K. Zerva: Transfer vs. Breakup in the interaction of the  $^7\text{Be}$  Radioactive Ion Beam with a  $^{58}\text{Ni}$  target at Coulomb barrier energies; EPJ Web of Conferences 66 (2014) 03060; doi: <http://dx.doi.org/10.1051/epjconf/20146603060>
61. A. Lagoyannis, K. Preketes-Sigalas, M. Axiotis, V. Foteinou, S. Harissopulos, M. Kokkoris, P. Misaelides, V. Paneta, N. Patronis: Study of the  $^{10}\text{B}(p,\alpha)^7\text{Be}$  and  $^{10}\text{B}(p,p')^{10}\text{B}$  reactions for PIGE purposes, "23rd Symposium of the Hellenic Nuclear Physics Society", Aristotle University of Thessaloniki, Thessaloniki, 20-21.06.2014
62. Nikolas Patronis, Xenofon Aslanoglou, Michael Axiotis, Zinovia Eleme, Varvara Foteinou, Sotirios Harissopulos, Antigoni Kalamara, Michael Kokkoris, Anastasios Lagoyannis, George Provatias and Roza Vlastou: Neutron reaction studies in the rare earth region: First results for the  $^{162}\text{Er}(n,2n)^{161}\text{Er}$  physics case, "23rd Symposium of the Hellenic Nuclear Physics Society", Aristotle University of Thessaloniki, Thessaloniki, 20-21.06.2014
63. A. Kalamara, M. Serris, M. Anastasiou, M. Diakaki, M. Kokkoris, N. Patronis, V. Paneta, M. Axiotis, A. Lagoyannis and R. Vlastou: Activation cross section for the  $(n,2n)$  reaction on  $^{197}\text{Au}$ , "23rd Symposium of the Hellenic Nuclear Physics Society", Aristotle University of Thessaloniki, Thessaloniki, 20-21.06.2014
64. Z. Eleme, M. Alexandropoulou, A. Georgiadou, K.G. Ioannides, M. Kokkoris, N. Patronis, A. Stamatopoulos, K.C. Stamoulis, A. Tsiganis, R. Vlastou and the n\_TOF Collaboration: Determination of the Neutron Beam Spatial Profile at n\_TOF EAR-2 using the CR-39 Track Detectors, "24th Symposium of the Hellenic Nuclear Physics Society", University of Ioannina, Ioannina, 22-23.05.2015
65. R. Vlastou, D. Sigalos, A. Kalamara, M. Kokkoris, M. Anastasiou, A. Lagoyannis, M. Axiotis, N. Patronis: Neutron Beam Characterization at the Athens Tandem Accelerator NCSR "Demokritos", "24th Symposium of the Hellenic Nuclear Physics Society", University of Ioannina, Ioannina, 22-23.05.2015
66. P. Grigoriadou, M. Kokkoris, N. Patronis and R. Vlastou: CONY - Computer code for Neutron Yield calculations: The  $^7\text{Li}(p,n)^7\text{Be}$  and  $^3\text{H}(d,n)^4\text{He}$  reactions, "24th Symposium of the Hellenic Nuclear Physics Society", University of Ioannina,

Ioannina, 22-23.05.2015

67. A. Kalamara, A. Spiliotis, M.Serris, M.Anastasiou, M. Diakaki, M. Kokkoris, N.Patronis, V.Paneta , M.Axiotis, A. Lagoyannis and R. Vlastou: Activation cross section of the (n,2n) reaction on Hf isotopes, "24th Symposium of the Hellenic Nuclear Physics Society", University of Ioannina, Ioannina, 22-23.05.2015
68. G. Marangouli, M. Kokkoris, A. Lagoyannis, N. Patronis, R. Vlastou, M. Diakaki: Computational study of the neutron flux produced by the  ${}^2\text{H}(d,n){}^3\text{He}$ , "24th Symposium of the Hellenic Nuclear Physics Society", University of Ioannina, Ioannina, 22-23.05.2015

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  $^{135}\text{Cs}(n,\gamma)$  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  $^{135}\text{Cs}(n,\gamma)$  reaction for nucleosynthesis and transmutation*, University of Ioannina, Open lectures, March 2003.
4. *Study of  $^{135}\text{Cs}(n,\gamma)$  reaction for nucleosynthesis and transmutation*, University of Ioannina, PhD defense, 25 February 2004.
5. *Exclusive breakup of  $^6\text{Li}$  on  $^{28}\text{Si}$  target at near – barrier energies*, “14<sup>th</sup> 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  $^{191}\text{Ir}(n,2n)^{190}\text{Ir}$  reaction cross section*, “16<sup>th</sup> 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  $^{68}\text{Ni}$* , 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  $^{68}\text{Ni}$* , CERN, proposal defense - INTC Meeting, 11 February 2008.
11. *Transfer Reactions Around  $^{68}\text{Ni}$  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  $^{68}\text{Ni}$  at REX-ISOLDE*, Department of Physics – University of Ioannina, 20 May 2008. (invited talk)
13. *Analysis of elastic backscattering and fusion data for  $^6\text{Li} + ^{28}\text{Si}$  at sub- and near-barrier energies: Probing the nuclear potential anomaly of weakly bound nuclei*, “18<sup>th</sup> Symposium of the Hellenic Nuclear Physics Society”, N.C.S.R. "DEMOKRITOS", Athens, 29-30 May 2009.
14. *Elastic backscattering measurements for  $^6\text{Li}+^{120}\text{Sn}$  and  $^6\text{Li}+^{208}\text{Pb}$  at sub- and near barrier energies*, INFN-LNS Catania-Italy, PAC Meeting, 8 July 2009.
15. *One neutron transfer reactions around  $^{68}\text{Ni}$ : First results from the  $^{66}\text{Ni}(d,p)^{67}\text{Ni}$  experiment*, “21<sup>st</sup> Symposium of the Hellenic Nuclear Physics Society”, N.C.S.R. "DEMOKRITOS", Athens, 25-26 May 2012.
16. *Transfer reactions at REX-ISOLDE: The  $^{66}\text{Ni}(d,p)^{67}\text{Ni}$  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  $^{162}\text{Er}(n,2n)^{161}\text{Er}$  physics case*, “23<sup>st</sup> 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.
19. EAR-2 beam profile characterization using CR-39 detectors, nTOF collaboration meeting, CERN 1 - 2 December 2015.