

Curriculum Vitae

Georgios Perdikakis

Assistant Professor

Studies

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| 10/2006 | Ph.D degree in Nuclear Physics from the National Technical University of Athens, Greece. |
| 10/2003 | Master's degree in Applied Mathematics and Natural Sciences from the National Technical University of Athens, Greece. |
| 7/2000 | Degree in Physics from the University of Ioannina, Greece. |

Appointments

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| 07/2012- | Assistant Professor, Department of Physics, Central Michigan University. |
| 10/2009-06/2012 | Physicist at the National Superconducting Cyclotron Laboratory (NSCL) and the Facility for Rare Isotope Beams (FRIB), Michigan State University. |
| 5/2007- 10/2009 | Research Associate at the National Superconducting Cyclotron Laboratory (NSCL), Michigan State University |

Awards

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| 1/2011 | Nuclear Instruments and Methods, section A: Named one of the most valued reviewers of 2010 by the journal's editor. |
| 5/2004 | Award for excellent publication, by the "Thomaideion" Foundation of the National Technical University of Athens. |

Scholarships

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| 5/2001 | Scholarship of NCSR "Demokritos" for Ph.D research at the 5MV Tandem Accelerator of the Institute of Nuclear Physics. Granted after written and oral examinations. |
| 11/2003 | Scholarship of the Greek Ministry of Education, ("HERAKLEITOS" programme) for my Ph.D thesis research with subject: "Study of neutron induced reactions (n,2n), involving nuclei of the actinides' region". |

Research

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| since 10/2009 | At the National Superconducting Cyclotron Laboratory of Michigan State University; |
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Research in the field of physics with rare isotope beams of low energies. Leading the development of instruments and techniques for the detection of stable and rare ions extracted from the NSCL beam stopping devices, accelerated through the RεA re-accelerator and delivered to the experimental stations. Leading the development of a mass separation and transport beam line to transfer stopped radioactive ions to the RεA reaccelerator and the stopped beams experimental area. Experimental studies of (p,n) Charge-Exchange reactions in inverse kinematics with unstable beams, using a new technique based on the Low Energy Neutron Detector Array (LENDa). Study of low-energy proton and neutron transfer reactions in radioactive nuclei in collaboration with Florida State University and Western Michigan University.

- 5/2007-10/2009 At the National Superconducting Cyclotron Laboratory of Michigan State University;
Development of the Low Energy Neutron Detector Array LENDa for the study of (p,n) charge-exchange reactions induced by radioactive beams in inverse kinematics.
Study of the reaction mechanism of (t,³He) and (³He,t) Charge-Exchange reactions at intermediate energies and in particular the mass dependence of the unit cross-section. Measurements using the (t,³He) reaction were performed at NSCL while measurements using the (³He,t) reaction were performed at the RCNP laboratory in Osaka, Japan.
- 3/2001 - 5/2007 at the 5MV Tandem accelerator of NCSR "Demokritos" in Greece.
Cross section measurements of (*n, xn*), (*n, α*) and (*n, p*) reactions . Theoretical calculations within the Hauser-Feshbach Statistical Model, using the code STAPRE and employing a coupled channels optical potential model, using the code ECIS.
Cross section measurements of breakup reactions of weakly bound nuclei.
Capture reactions relevant to the p-process nucleosynthesis.
Applications of ion-beams in analysis of materials, using the techniques of Rutherford Backscattering (RBS), Channelling and Nuclear Reaction Analysis (NRA).
- 11/2006 Participation in measurements aiming at the determination of the level density and the gamma-ray strength function for the nucleus ⁴⁴Ti, via the reaction ⁴⁶Ti(*p, t*)⁴⁴Ti. The experiment was carried out at the Oslo Cyclotron Laboratory in Norway, using the CACTUS gamma ray spectrometer, consisting of 28 NaI detectors.
- 7/2004-10/2004 Participation in measurements of (*n, γ*) reactions of minor Actinides with relevance to nuclear waste transmutation. These measurements have been performed at CERN, in the context of the n_TOF experiment, using a total absorption calorimeter consisted of 40 BaF₂ crystals.
- 7/2002 Experiments at the 3MV Tandetron accelerator of the Forschungszentrum

Rossendorf in Germany, using the Channelling technique. These experiments aimed at the study of the dechanneling function in crystalline materials as well as the influence of high radiation dose on their structure.

Refereeing

Physical Review Special Topics: Accelerators and Beams

IEEE transactions on Nuclear Science

Nuclear Instruments and Methods A

Teaching

1/2001-7/2004 Laboratory courses in Atomic, Nuclear and Applied physics, for the students of the National Technical University of Athens.

Supervision

Graduate students

2007-2009	Jenna Deaven Amanda Prinke
2010-2011	Carla Benatti Ling-Ying Lingy

Undergraduate Students

2007-2009	Katie Thorne Cristoph Caesar Du Nguyen
2010-2011	Ediz Edward Ersoy Cameron Stewart Vinny DelVillano

High School Honors Science Students

2008	Jon Marks
2010	Song-Yon Song
2011	Carmina Padgett-Gonzalez

Publications in Refereed Journals

- [1] *Correlation between channeling parameters and nitrogen doping concentration in n-type SiC polytype crystals studied by CW- and pulsed-EPR*
M. Kokkoris, G. Mitrikas, S. Kossionides, G. Perdikakis, G. Fanourakis and Th. Paradellis
Nucl. Instr. Meth. B 195, (2002), p. 414
- [2] *Study of antibacterial composite Cu/SiO₂ thin coatings*
C. C. Trapalis, M. Kokkoris, G. Perdikakis, G. Kordas.
J. of S-G Sci. & Tech. 26, (2003), p. 1213.
- [3] *The elastic scattering of $^6\text{Li} + ^{28}\text{Si}$ at near-barrier energies*
A. Pakou, N. Alamanos, A. Lagoyannis, A. Gillibert, E. C. Pollacco, P. A. Assimakopoulos, G. Doukelis, K. G. Ioannides, D. Karadimos, D. Karamanis, M. Kokkoris, E. Kossionides, N. G. Nicolis, C. Papachristodoulou, N. Patronis, G. Perdikakis and D. Pierroutsakou
Phys. Lett. B 556, (2003), p. 21.
- [4] *Investigation of deep implanted fluorine channeling profiles in silicon using resonant NRA*
M. Kokkoris, G. Perdikakis, R. Vlastou, C. T. Papadopoulos, X. A. Aslanoglou, M. Posselt, R. Groetzschel, S. Harissopulos and S. Kossionides
Nucl. Instr. Meth. B 201, (2003), p. 623
- [5] *On the dechanneling of protons in Si [110]*
M. Kokkoris, G. Perdikakis, S. Kossionides, S. Petrović and E. Simoen.
E. P. J. B 34, (2003), p.257
- [6] *Neutron cross-section measurements in the Th-U cycle by the activation method*
D. Karamanis, S. Andriamonje, P. A. Assimakopoulos G. Doukellis, D. A. Karadimos, A. Karydas, M. Kokkoris, S. Kossionides, N. G. Nicolis, C. Papachristodoulou, C. T. Papadopoulos, N. Patronis, P. Pavlopoulos, G. Perdikakis, R. Vlastou and The n-TOF Collaboration
Nucl. Instr. Meth. A 505, (2003), p. 381.
- [7] *A study of the dechanneling of protons in SiC polytype crystals in the energy range $E_p = 400\text{--}650\text{ keV}$*
M. Kokkoris, G. Perdikakis, S. Kossionides, S. Petrović, R. Vlastou and R. Groetzschel
Nucl. Instr. Meth. B 219-220, (2004), p. 226.
- [8] *Elastic scattering of $^7\text{Li} + ^{28}\text{Si}$ at near-barrier energies*
A. Pakou, N. Alamanos, G. Doukelis, A. Gillibert, G. Kalyva, M. Kokkoris, S. Kossionides, A. Lagoyannis, A. Musumarra, C. Papachristodoulou, N. Patronis, G. Perdikakis, D. Pierroutsakou, E. C. Pollacco, and K. Rusek
Phys. Rev. C 69, (2004), 054602.
- [9] *Measurement of the monitored drift tubes response to energetic neutrons* T. Alexopoulos, R. Avramidou, U. Bratzler, M. Dris, D. Fassouliotis, A. Filippas, E. N. Gazis, E. Katsoufis, M. Kokkoris, E. Kossionidis, S. Maltezos, G. Perdikakis, V. Polychronakos, P. S. Savva, G. Stavropoulos, G. Tsipolitis, E. Tzamarioudaki.
IEEE Trans. Nucl. Sci. 51, (2004), p. 2448.
- [10] *On the determination of beryllium in light element matrices using PIGE and NRA*
G. Perdikakis, A. Spyrou, M. Kokkoris, Ch. Zarkadas, A.G. Karydas, S. Harissopulos and

- S. Kossionides
Nucl. Instr. Meth. B 226, (2004), p. 622.
- [11] *Proton and alpha-particle capture reactions at sub-Coulomb energies relevant to the p process*
S. Harissopulos, A. Lagoyannis, A. Spyrou, Ch. Zarkadas, S. Galanopoulos, G. Perdikakis, H.-W. Becker, C. Rolfs, F. Strieder, R. Kunz, M. Fey, J. W. Hammer, A. Dewald, K.-O. Zell, P. von Brentano, R. Julin and P. Demetriou
J. Phys. G 31, (2005), S1417.
- [12] *Reaction channels of $6,7\text{Li}+28\text{Si}$ at near-barrier energies.*
A. Pakou, K. Rusek, N. G. Nicolis, N. Alamanos, G. Doukelis, A. Gillibert, G. Kalyva, M. Kokkoris, A. Lagoyannis, A. Musumarra, C. Papachristodoulou, G. Perdikakis, D. Pierroutsakou, E. C. Pollacco, A. Spyrou and Ch. Zarkadas.
J. Phys. G 31, (2005), S1723.
- [13] *alpha -particle production: Direct and compound contribution in the reaction $7\text{Li}+28\text{Si}$ at near-barrier energies*
A. Pakou, N. G. Nicolis, K. Rusek, N. Alamanos, G. Doukelis, A. Gillibert, G. Kalyva, M. Kokkoris, A. Lagoyannis, A. Musumarra, C. Papachristodoulou, G. Perdikakis, D. Pierroutsakou, E. C. Pollacco, A. Spyrou, and Ch. Zarkadas.
Phys. Rev. C 71, (2005), 064602
- [14] *On the radiation damage effects in semiconductors beyond the end of range of implanted protons at high energies and fluences*
M. Kokkoris, A. Spyrou, G. Perdikakis, R. Vlastou, C.T. Papadopoulos, A. Lagoyannis, E. Simoen and S. Kossionides
Nucl. Instr. Meth. B 240, (2005), p. 168.
- [15] *Application of ion beam analysis to the characterization of protective coatings prepared by plasma detonation techniques on steel samples*
P. Misaelides, F. Noli, Y.N. Tyurin, A.D. Pogrebnjak and G. Perdikakis
Nucl. Instr. Meth. B 240, (2005), p. 371.
- [16] *The ^6Li exclusive breakup on ^{28}Si at 13 MeV.*
A. Pakou, N. Alamanos, N.M. Clarke, N.J. Davis, G. Doukelis, G. Kalyva, M. Kokkoris, A. Lagoyannis, T.J. Mertzimekis, A. Musumarra, N.G. Nicolis, C. Papachristodoulou, N. Patronis, G. Perdikakis, D. Pierroutsakou, D. Roubos, K. Rusek, S. Spyrou and Ch. Zarkadas
Phys. Lett. B 633, (2006), p. 691
- [17] *Studies on the response of ^3He and ^4He proportional counters to monoenergetic fast neutrons*
M. Manolopoulou, M. Fragopoulou, S. Stoulos, C. Koukorava, A. Spyrou, G. Perdikakis, S. R. Hashemi-Nezhad, M. Zamani
Nucl. Instr. Meth. A 562, (2006), p. 371
- [18] *Measurement of the $^{241}\text{Am}(n, 2n)$ reaction cross section, by the activation method*
G. Perdikakis, C. T. Papadopoulos, R. Vlastou, A. Lagoyannis, A. Spyrou, M. Kokkoris, S.

- Galanopoulos, N. Patronis, D. Karamanis, Ch. Zarkadas, G. Kalyva, and S. Kossionides. Phys. Rev. C 73, (2006), 067601
- [19] ${}^{6,7}\text{Li} + {}^{28}\text{Si}$ total reaction cross sections at near barrier energies.
A. Pakou, A. Musumarra, D. Pierroutsakou, N. Alamanos, P.A. Assimakopoulos, N. Divis, G. Doukelis, A. Gillibert, S. Harissopulos, G. Kalyva, M. Kokkoris, A. Lagoyannis, T.J. Mertzimekis, N.G. Nicolis, C. Papachristodoulou, G. Perdikakis, D. Roubos, K. Rusek, A. Spyrou and Ch. Zarkadas.
Nuclear Physics A 784, (2007), (1-4), pp. 13-24.
- [20] Study of the ${}^{241}\text{Am}(n, 2n){}^{240}\text{Am}$ reaction cross section in the energy range $E_n = 8.8 - 11.1\text{MeV}$
G. Perdikakis, C. T. Papadopoulos, M. Kokkoris, R. Vlastou, S. Galanopoulos, A. Lagoyannis, A. Spyrou, G. Kalyva, N. Patronis.
J. Radioan. & Nucl. Chem. 272, (2007), pp. 223-226
- [21] Neutron Induced Reactions at the Athens Tandem Accelerator NCSR "Demokritos
R. Vlastou, C. T. Papadopoulos, M. Kokkoris, G. Perdikakis, S. Galanopoulos, M. Serris, A. Lagoyannis, S. Harissopulos
J. Radioan. & Nucl. Chem. 272, (2007), pp. 219- 222
- [22] Study of the $(n, 2n)$ cross section of the ${}^{174}\text{Hf}$ isotope.
M. Serris, S. Galanopoulos, M. Kokkoris, A. Lagoyannis, C. A. Kalfas, C. T. Papadopoulos, N. Patronis, G. Perdikakis and R. Vlastou.
Nucl. Instr. Meth. B. 261, (2007), pp. 941-944
- [23] Experimental and theoretical studies of (n, p) reactions on Ge isotopes.
S. Galanopoulos, R. Vlastou, C. T. Papadopoulos, P. Demetriou, M. Kokkoris, G. Perdikakis and M. Serris.
Nucl. Instr. Meth. B. 261, (2007), pp. 969-973
- [24] Activation cross section and isomeric cross section ratio for the $(n, 2n)$ reaction on ${}^{191}\text{Ir}$.
N. Patronis, C. T. Papadopoulos, S. Galanopoulos, S. Harissopulos, A. Lagoyannis, M. Kokkoris, G. Perdikakis and R. Vlastou.
Phys. Rev. C. 75, (2007), 034607
- [25] Aspects of GEANT4 Monte Carlo calculations of the BC501A neutron detector
N. Patronis, M. Kokkoris, D. Giantsoudi, G. Perdikakis, C. T. Papadopoulos, and R. Vlastou.
Nucl. Instr. Meth. A 578, (2007), pp. 351-355
- [26] Production and beta decay of rp process nuclei Cd-96, In-98, and Sn-100
D. bazin, F. Montes, A. Becceril, G. Lorusso, A. Amthor, T. Baumann, H. Crawford, A. Estrade, A. Gade, T. Ginter, C. J. Guess, M. Hausmann, G. W. Hitt, P. Mantica, M. Matos, R. Meharchand, K. Minamisono, G. Perdikakis, J. Pereira, J. Pinter, M. Portillo, H. Schatz, K. Smith, J. Stoker, A. Stolz, R. G. T. Zegers.
Phys. Rev. Lett. 101, (2008), 252501
- [27] beta-decay half-life of the rp -process waiting-point nuclide Mo-84
J. B. Stoker, P. F. Mantica, D. Bazin, A. Becceril, J. S. Berryman, H. L. Crawford, A. Estrade, C. J. Guess, G. W. Hitt, G. Lorusso, M. Matos, K. Minamisono, F. Montes, J.

- Perreira, G. Perdikakis, H. Schatz, K. Smith, R. G. T. Zegers
Phys. Rev. C 79, (2009), 015803
- [28] *LEND A Low Energy Neutron Detector Array for studies of (p, n) reactions in inverse kinematics*
G. Perdikakis, S. M. Austin, D. Bazin, C. Caesar, J. M. Deaven, C. J. Guess, G. W. Hitt, R. T. Meharchand, D. T. Nguyen, Y. Shimbara, K. Thorne, R. G. T. Zegers
IEEE Trans. Nucl. Sci. 56, (2009), pp. 1174 - 1178
- [29] *Spectroscopy of ^{13}B via the $^{13}\text{C}(t, ^3\text{He})$ reaction at 115 AMeV*
C. J. Guess, R. G. T. Zegers, B. A. Brown, Sam M. Austin, D. Bazin, C. Caesar, J. M. Deaven, G. F. Grinyer, C. Herlitzius, G. W. Hitt, S. Noji, R. Meharchand, G. Perdikakis, H. Sakai, Y. Shimbara and C. Tur
Phys. Rev. C 80, (2009), 024305
- [30] *Extraction of thermal and electromagnetic properties in ^{45}Ti*
N.U.H. Syed, A.C. Larsen, A. Bürger, M. Guttormsen, S. Harissopulos, M. Kmiecik, T. Konstantinopoulos, M. Krtička, A. Lagoyiannis, T. Lönroth, K. Mazurek, M. Norby, H. Nyhus, G. Perdikakis, S. Siem, and A. Spyrou.
Phys. Rev. C 80, (2009), 044309
- [31] $^{197}\text{Au}(n, \gamma)$ cross section in the resonance region
C. Massimi et al. (n_TOF Collaboration)
Phys. Rev. C 81, (2010), 044616
- [32] *Fermi's golden rule applied to the γ -decay in the quasi-continuum of ^{46}Ti*
M. Guttormsen, A. C. Larsen, A. Bürger, A. Görgen, S. Harissopulos, M. Kmiecik, T. Konstantinopoulos, M. Krtička, A. Lagoyiannis, T. Lönroth, K. Mazurek, M. Norrby, H.T. Nyhus, G. Perdikakis, A. Schiller, S. Siem, A. Spyrou, N.U.H. Syed, H.K. Toft, G.M. Tveten, and A. Voinov
Phys. Rev. C 83, (2011), 014312
- [33] *A high-spin isomer in ^{97}Cd and the astrophysical origin of ^{96}Ru .*
G. Lorusso, A. Becerril, A. Amthor, T. Baumann, D. Bazin, J.S. Berryman, B.A. Brown, R.H. Cyburt, H.L. Crawford, A. Estrade, A. Gade, T. Ginter, C.J. Guess, M. Hausmann, G.W. Hitt, P.F. Mantica, M. Matos, R. Meharchand, K. Minamisono, F. Montes, G. Perdikakis, J. Pereira, M. Portillo, H. Schatz, K. Smith, J. Stoker, A. Stolz, and R.G.T. Zegers
Phys. Lett. B 699, (2011), pp. 141-144
- [34] *Gamow-Teller unit cross sections for $(t, ^3\text{He})$ and $(^3\text{He}, t)$ reactions.*
G. Perdikakis, R. G. T. Zegers, Sam M. Austin, D. Bazin, C. Caesar, J. M. Deaven, A. Gade, D. Galaviz, G. F. Grinyer, C. J. Guess, C. Herlitzius, G. W. Hitt, M. E. Howard, R. Meharchand, S. Noji, H. Sakai, Y. Shimbara, E. E. Smith, and C. Tur
Phys. Rev. C 83, (2011), 054614
- [35] *The $^{150}\text{Nd}(^3\text{He}, t)$ and $^{150}\text{Sm}(t, ^3\text{He})$ reactions with applications to $\beta\beta$ decay of ^{150}Nd*
C. J. Guess et al.

Phys. Rev. C 83, (2011), 064318

- [36] *High-spin μs isomeric states in ^{96}Ag .*
A. D. Becerril et al.
Phys. Rev. C 84, (2011), 041303

- [37] *Gamow-Teller Transition Strengths from ^{56}Ni*
M. Sasano, G. Perdikakis, R. G. T. Zegers, Sam M. Austin, D. Bazin, B. A. Brown, C. Caesar, A. L. Cole, J. M. Deaven, N. Ferrante, C. J. Guess, G. W. Hitt, R. Meharchand, F. Montes, J. Palardy, A. Prinke, L. A. Riley, H. Sakai, M. Scott, A. Stolz, L. Valdez, and K. Yako
Phys. Rev. Lett. 107, (2011), 202501

- [38] *LENDA, a Low Energy Neutron Detector Array for experiments with radioactive beams in inverse kinematics.*
G. Perdikakis, M. Sasano, Sam M. Austin, D. Bazin, C. Caesar, S. Cannon, J. M. Deaven, H. J. Doster, C. J. Guess, G. W. Hitt, J. Marks, R. Meharchand, D. T. Nguyen, D. Peterman, A. Prinke, M. Scott, Y. Shimbara, K. Thorne, L. Valdez, R. G. T. Zegers
arXiv:1111.4011, accepted Nucl. Instr. Meth. A

- [39] *Probing configuration mixing in ^{12}Be with Gamow-Teller transition strengths.*
R. Meharchand, R. G. T. Zegers, B. A. Brown, Sam M. Austin, T. Baugher, D. Bazin, J. Deaven, A. Gade, G. F. Grinyer, C. J. Guess, M. E. Howard, H. Iwasaki, S. McDaniel, K. Meierbachtol, G. Perdikakis, J. Pereira, A. M. Prinke, A. Ratkiewicz, A. Signoracci, S. Stroberg, L. Valdez, P. Voss, K. A. Walsh, D. Weisshaar, and R. Winkler
Phys. Rev. Lett. 108, (2012), 122501

Publications in Conference Proceedings

- [1] *The n-TOF collaboration - Measurement of the $^{232}\text{Th}(n, 2n)$ reaction cross Section by the activation method*
G. Perdikakis
XIV International School on Nuclear Physics, Neutron Physics and Nuclear Energy, Varna, Bulgaria, 25-30 September, 2001
BgNS Trans. 7, (2002)
- [2] *Measurement of the monitored drift tubes response to energetic neutrons*
P.S. Savva, T. Alexopoulos, R. Avramidou, M. Dris, D. Fassouliotis, A. Filippas, E. N. Gazis, K. Kalfas, E. Katsoufis, M. Kokkoris, E. Kossionidis, S. Maltezos, G. Perdikakis, V. Polychronakos, G. Stavropoulos, G. Tsiopolitis, E. Tzamarioudaki.
IEEE Nucl. Sci. Symp., Conf. Rec. 5, (2003), p. 3464
- [3] *The Neutron Facility at NCSR "Demokritos"-Implementation in the Case of the $^{232}\text{Th}(n, 2n)$ Reaction*
R. Vlastou, C. T. Papadopoulos, G. Perdikakis, M. Kokkoris, C. A. Kalfas, S. Kossionides,

- D. Karamanis, and P. A. Assimakopoulos
International Conference on The Labyrinth in Nuclear Structure, an EPS Nuclear Physics
Divisional Conference, Crete, Greece, 13 - 19 July 2003
AIP, Conf. Proc. Vol. 701, (2004), p. 324.
- [4] *Investigation of the ATLAS MDT chambers response to fast neutron background radiation*
T. Alexopoulos, R. Avramidou, M. Dris, A. Filippas, E. N. Gazis, E. Katsoufis, M. Kokkoris,
E. Kossionidis, A. Lagoyannis, S. Maltezos, G. Perdikakis, V. Polychronakos, P. Savva, A.
Spyrou, G. Tsipolitis, E. Tzamariudaki.
IEEE Nucl. Sci. Symp., Conf. Rec. 1, (2004), p. 667
- [5] *Nuclear Model Calculations for the $^{58}\text{Ni}(n,p)^{58}\text{Co}$ reaction*
C. Tsabaris and G. Perdikakis
International Conference of Numerical Analysis and Applied Mathematics, Chalkis,
Greece, 10 - 14 September, 2004.
Int. Conf. Num. An. & App. Math., (2004), Conf. Proc., Wiley-VCH, (2004)
- [6] *Measurements at n-TOF of the Neutron Capture Cross Section of Minor Actinides Relevant
to the Nuclear Waste Transmutation*
D. Cano-Ott ...G. Perdikakis... and the n-TOF collaboration.
International Conference on Nuclear Data for Science and Technology, Santa Fe, New
Mexico, 26 September - 1 October, 2004
AIP, Conf. Proc., Vol. 769, (2005), p. 1442
- [7] *Neutron activation measurements on natural Ge and Hf*
S. Galanopoulos, M. Serris, G. Perdikakis, M. Kokkoris, C. T. Papadopoulos, R. Vlastou,
A. Lagoyannis, A. Spyrou, Y. Kalyva, S. Harissopulos, Ch. Zarkadas and S. Kossionides
FINUSTAR Conference, Frontiers in Nuclear Structure, Astrophysics and Reactions, Kos,
Greece, 12 - 17 September, 2005
AIP, Conf. Proc., Vol. 831, pp. 451-453
- [8] *Measurement of the $^{241}\text{Am}(n, 2n)$ reaction cross section by the activation method*
G. Perdikakis, C. T. Papadopoulos, R. Vlastou, A. Lagoyannis, A. Spyrou, M. Kokkoris,
N. Patronis, D. Karamanis, Ch. Zarkadas, Y. Kalyva, C. Tsabaris and S. Kossionides
FINUSTAR Conference, Frontiers in Nuclear Structure, Astrophysics and Reactions, Kos,
Greece, 12 - 17 September, 2005
AIP, Conf. Proc., Vol. 831, pp. 532-534.
- [9] *Neutron induced reactions at the Athens Tandem accelerator of NCSR "Demokritos"*
R. Vlastou, C. T. Papadopoulos, G. Perdikakis, S. Galanopoulos, M. Serris, D. Giantsoudi,
S. Kossionides, S. Harissopulos, D. Karamanis, P. A. Assimakopoulos.
FINUSTAR Conference, Frontiers in Nuclear Structure, Astrophysics and Reactions, Kos,
Greece, 12 - 17 September, 2005
AIP, Conf. Proc., Vol. 831, pp. 181-185
- [10] *Beta-Decay Study of the rp-process Nucleus ^{96}Cd*
A.D. Becerril, A.M. Amthor, T. Baumann, D. Bazin, H. Crawford, A. Estrade, A. Gade,
T. Ginter, C. Guess, M. Hausmann, G.W. Hitt, G. Lorusso, P.F. Mantica, M. Matos, R.
Meharchand, K. Minamisono, F. Montes, J. Pereira, G. Perdikakis, J. Pinter, M. Portillo,
H. Schatz, K. Smith, J. Stoker, and R. Zegers.
Proceedings of the 10th International Conference on Nuclei in the Cosmos, Mackinac

Island, Michigan, July 27 - August 1, 2008
Proceedings of Science PoS(NIC-X), 167

- [11] *Beta-Delayed Proton Emission in the 100Sn Region.*
G. Lorusso, A. Amthor, T. Baumann, D. Bazin, A. Becerril, J.S. Berryman, H. Crawford, A. Estrade, A. Gade, T. Ginter, C.J. Guess, M. Hausmann, G.W. Hitt, P.F. Mantica, M. Matos, R. Meharchand, K. Minamisono, F. Montes, G. Perdikakis, J. Pereira, M. Portillo, H. Schatz, K. Smith, J. Stoker, A. Stolz, and R. Zegers.
Proceedings of the 10th International Conference on Nuclei in the Cosmos, Mackinac Island, Michigan, July 27 - August 1, 2008
Proceedings of Science PoS(NIC-X), 172
- [12] *Beta-Decay Studies of $N=Z$ Nuclides at NSCL.*
F. Montes, A. Amthor, T. Baumann, D. Bazin, A. Becerril, J.S. Berryman, H. Crawford, A. Estrade, A. Gade, T. Ginter, C.J. Guess, M. Hausmann, G.W. Hitt, G. Lorusso, P.F. Mantica, M. Matos, R. Meharchand, K. Minamisono, G. Perdikakis, J. Pereira, M. Portillo, H. Schatz, K. Smith, J. Stoker, A. Stolz, and R. Zegers.
Proceedings of the 10th International Conference on Nuclei in the Cosmos, Mackinac Island, Michigan, July 27 - August 1, 2008
Proceedings of Science PoS(NIC-X), 174
- [13] *Half-Life of the rp -process Waiting Point Nucleus ^{84}Mo .*
J.B. Stoker, P.F. Mantica, D. Bazin, A. Becerril, J.S. Berryman, H.L. Crawford, A. Estrade, C.J. Guess, G.W. Hitt, G. Lorusso, M. Matos, K. Minamisono, F. Montes, J. Pereira, G. Perdikakis, H. Schatz, K. Smith, and R.G.T. Zegers.
Proceedings of the 10th International Conference on Nuclei in the Cosmos, Mackinac Island, Michigan, July 27 - August 1, 2008
Proceedings of Science PoS(NIC-X), 179
- [14] *Studying Matrix Elements for the Neutrinoless Double Beta Decay of ^{150}Nd via the $\text{Sm}(t, ^3\text{He})^{150}\text{Pm}^*$ and $^{150}\text{Nd}(^3\text{He}, t)^{150}\text{Pm}^*$ Reactions.*
C.J. Guess, S.M. Austin, D. Bazin, B.A. Brown, C. Caesar, J.M. Deaven, C. Herlitzius, G.W. Hitt, R.T. Meharchand, G. Perdikakis, Y. Shimbara, C. Tur, and R.G.T. Zegers.
Proceedings of the 10th International Conference on Nuclei in the Cosmos, Mackinac Island, Michigan, July 27 - August 1, 2008
Proceedings of Science PoS(NIC-X), 104
- [15] *Charge-Exchange Nuclear Reactions at NSCL Using Radioactive Beams: Development of the LENDA Low Energy Neutron Detector Array.*
C. Caesar, S.M. Austin, D. Bazin, J. M. Deaven, C. J. Guess, G. W. Hitt, R. T. Meharchand, D. T. Nguyen, G. Perdikakis, Y. Shimbara, K. Thorne, and R.G.T. Zegers.
Proceedings of the 10th International Conference on Nuclei in the Cosmos, Mackinac Island, Michigan, July 27 - August 1, 2008
Proceedings of Science PoS(NIC-X), 117
- [16] *ReA3 - the Rare Isotope Re-accelerator at MSU.*
O. Kester, D. Bazin, C. Benatti, J. Bierwagen, G. Bollen, S. Bricker, A.C. Crawford, S. Chouhan, C. Compton, K. Davidson, J. DeLauter, M. Doleans, L. Dubbs, K. Elliott, A. Lapierre, W. Hartung, M. Johnson, S. Krause, F. Marti, J. Ottarson, G. Perdikakis, L. Popielarski, J. Popielarski, M. Portillo, R. Rencsok, D. Sanderson, S. Schwarz, N. Ver-

hanovitz, J. Vincent, J. Wlodarczak, X. Wu, J. Yurkon, A. Zeller, Q. Zhao, A. Schempp, J. Schmidt
 Proceedings of Linear Accelerator Conference LINAC2010, Tsukuba, Japan
 MO203

- [17] *β and Isomeric Decay of Nuclei in the 100Sn Region*
 A. D. Becerril et al.
 VIII LATIN AMERICAN SYMPOSIUM ON NUCLEAR PHYSICS AND APPLICATIONS.
 AIP Conference Proceedings 1265, (2010), p.139
- [18] *Commissioning results of the ReA RFQ at MSU*
 D. Leitner, C. Benatti, S. W. Krause, J. Ottarson, D. Morris, S. Nash, G. Perdikakis, M. Portillo, R. J. Rencsok, T. Ropponen, L. Tobos, N. Usher, D. Wang, F. Marti, E. Tanke, X. Wu, Q. Zhao, O. Kester, A. Schempp, J. Schmidt, H. Zimmermann, Juergen Haeuser
 Proceedings of 2011 Particle Accelerator Conference, New York, NY, USA
 WEP226

Presentations in Conferences and Workshops

- [1] *The n_TOF collaboration - Measurement of the $^{232}\text{Th}(n, 2n)$ reaction cross section by the activation method*
 XIV International School on Nuclear Physics, Neutron Physics and Nuclear Energy, Varna, Bulgaria, 25-30 September, 2001
- [2] *The n_TOF collaboration - Statistical Model Calculations of the $^{232}\text{Th}(n, 2n)$ reaction*
 12th Symposium of the Hellenic Nuclear Physics Society, Institute of Nuclear Physics, NCSR "Demokritos", Athens, Greece, May 2002
- [3] *Statistical model calculations of the $^{232}\text{Th}(n, 2n)$ reaction*
 3rd International Balkan School on Nuclear Physics, Thessaloniki, Greece, 18-24 September 2002
- [4] *Determination of beryllium in light element matrices using NRA*
 13th Symposium of the Hellenic Nuclear Physics Society, University of Ioannina, Ioannina, Greece, 23-24 May 2004
- [5] *Measurement of the $^{241}\text{Am}(n, 2n)$ reaction cross section by the activation method*
 14th Symposium of the Hellenic Nuclear Physics Society, National Technical University of Athens, Greece, 21-22 May 2004.
- [6] *Theoretical calculations for the reaction $^{241}\text{Am}(n, 2n)$ in the framework of the Hauser-Feshbach model.*
 15th Symposium of the Hellenic Nuclear Physics Society, Physics Department, Aristotle University of Thessaloniki, Greece, 27-28 May 2005
- [7] *Measurement of the $^{241}\text{Am}(n, 2n)$ reaction cross section by the activation method.*
 2nd IP EUROTRANS training course - Nuclear Data for Transmutation: status, needs and methods, Santiago de Compostella, Spain, 7-10 June 2006
- [8] *Measurement of the $^{241}\text{Am}(n, 2n)$ reaction cross section by the activation method.*
 Euro Summer School on Exotic Beams, Trento, Italy, 11-15 September 2006

- [9] *Study of proportionality in $(t, {}^3\text{He})$ and $({}^3\text{He}, t)$ charge-exchange reactions.*
Joint meeting of the American Physical Society - Division of Nuclear Physics and the Japanese Nuclear Society, Waikoloa, Hawaii, October 2010
- [10] *Scintillator screens at ReA3*
Workshop on Scintillating Screen Applications in Beam Diagnostics, Frankfurt, Germany, February 2011.

Invited talks

- [1] *Low-energy Low-intensity Diagnostics for ReA3 @ NSCL/MSU - Diagnostics for the needs of FRIB*
DITANET workshop on Low Energy - Low Intensity Beam Diagnostics, Heidelberg, Germany, November 2009

Seminars

- [1] *Measurement of the ${}^{241}\text{Am}(n, 2n)$ reaction cross section by the activation method.*
Seminar at the National Superconducting Cyclotron Laboratory, Michigan State University, Michigan, USA, 1 March 2007
- [2] *Low Energy Radioactive Ion Beams from ReA3 at NSCL: Instrumentation and a view on possible experiments.*
Seminar at INFN - LNS, Catania, Italy, January 2010