Curriculum Vitae - Artemis Spyrou

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Degrees

2001	Diploma in Physics - Aristotle University of Thessaloniki, Greece
2003	Master's in Physics - National Technical University of Athens
2007	Ph.D - National Technical University of Athens.

Appointments

2007 - 2009	Research Associate, NSCL, Michigan State University.
2009 - 2015	Assistant Professor, NSCL/Physics & Astronomy, Michigan State University.
2015 - 2019	Associate Professor, NSCL/Physics & Astronomy, Michigan State University.
2015 - 2019	Associate Director for Education and Outreach, NSCL, Michigan State University.
2019 - present	Professor, NSCL/Physics & Astronomy, Michigan State University.
2019 - present	Faculty Outreach Advisor, FRIB, Michigan State University

Awards

05/2011	Osgood Excellence in Teaching Award Department of Physics and Astronomy, Michigan State University.
05/2014	NSF CAREER Award (2014-2019)
05/2017	Outreach Award, Department of Physics & Astronomy, MSU
11/2018	Graduate Academic Advisor Award, College of Natural Science, MSU

Summary

Total Number of Refereed Publications	92
Total Number of Invited Talks	41
Total Number of Conference Proceedings	24
Total Number of Contributed Talks	20
Total number of Seminars-Colloquia	27

Publications in Refereed Journals

1. *High Efficiency Total Absorption Spectrometer HECTOR for capture reaction measurements*
   C.S. Reingold, O. Olivas-Gomez, A. Simon, J. Arroyo, M. Chamberlain, J. Wurzer, A. Spyrou, F. Naqvi, A.C. Dombos, A. Palmisano, T. Anderson, A.M. Clark, B. Frentz, M.R. Hall, S.L. Henderson, S. Moylan, D. Robertson, M. Skulski, E. Stech, S.Y. Strauss, W.P. Tan, and B. Vande Kolk
   European Journal of Physics 55 (2019) 77.

2. *Novel Techniques for constraining neutron-capture rates relevant for r-process heavy-element nucleosynthesis*
   A.C. Larsen, A. Spyrou, S.N. Liddick, M. Guttormsen
   Progress in Nuclear and Particle Physics 107 (2019) 69 (Invited review).

3. *Neutron-star mergers and New Opportunities in Rare Isotope Experimental Research*
   A. Spyrou
   Annals of Physics 412 (2019) 168017 (Invited review).

4. *Level Density of ^{74,76}Ge from compound nuclear reactions*
   A.V. Voinov, T. Renstrom, D.L. Bleuel, S.M. Grimes, M. Guttormsen, A.C. Larsen, S.N. Liddick, G. Perdikakis, A. Spyrou, S. Akhtar, N. Alanazi, K. Brandenburg, C.R. Brune, T.W. Danley, S. Dhakal, P. Gastis, R. Giri, T.N. Massey, Z. Meisel, S. Nikas, S.N. Paneru, C.E. Parker, and A.L. Richard
   Physical Review C 99 (2019) 054609.

5. *Experimentally constrained ^{73}Zn(n,γ)^{74}Zn reaction rate*
   R. Lewis, S.N. Liddick, A.C. Larsen, A. Spyrou, D.L. Bleuel, A. Couture, L. Crespo Campo, B.P. Crider, A.C. Dombos, M. Guttormsen, S. Mosby, F. Naqvi, G. Perdikakis, C.J. Prokop, S.J. Quinn, T. Renstrøm, and S. Siem
   Physical Review C 99 (2019) 034601.

6. *β-decay half-lives of neutron-rich nuclides in the A=100-110 mass region*
   A. C. Dombos, A. Spyrou, F. Naqvi, S. J. Quinn, S. N. Liddick, A. Algora, T. Baumann, J. Brett, B. P. Crider, P. A. DeYoung, T. Ginter, J. Gombas, E. Kwan, S. Lyons, W.-J. Ong, A. Palmisano, J. Pereira, C. J. Prokop, D. P. Scriven, A. Simon, M. K. Smith, and C. S. Sumithrarachchi
   Physical Review C 99 (2019) 015802.

7. *R-process nucleosynthesis: Connecting Rare Isotope Beam Facilities with the Cosmos.*
   C. J. Horowitz, A. Arcones, B. Cote, I. Dillmann, W. Nazarewicz, I. U. Roederer, H Schatz, A. Aprahamian, D. Atanasov, A. Bauswein, T. C. Beers, J. Bliss, M. Brodeur, J. A. Clark, A. Frebel, F. Foucart, C. J. Hansen, O. Just, A. Kankainen, G. C. McLaughlin, J. M. Kelly, S. N. Liddick, D. M. Lee, J. Lippuner, D. Martin, J. Mendoza-Temis, B. D. Metzger, M. R. Mumpower, G. Perdikakis, J. Pereira, B. W. O'Shea, R. Reifarth, A. M. Rogers, D. M. Siegel, A. Spyrou, R. Surman, X. Tang, T. Uesaka, M. Wang
   Journal of Physics G (Accepted 2019).

8. *Software Development to Determine Optimal Parameters of a Tape Transport System.*
   A. Torode, M.K. Smith, A. Spyrou, C. Harris, S. Lyons, A.C. Dombos, S.N. Liddick
   Undergraduate Student Journal of Physics, 71 (2018) 4.

9. *Unexpectedly high photon intensities in neutron-rich atomic nuclei.*

A. C. Larsen, J. E. Midtbø, M. Guttormsen, T. Renstrøm, S. N. Liddick, A. Spyrou, S. Karampagia, B. A. Brown, O. Achakovskiy, S. Kamerdzhiev, D. L. Bleuel, A. Couture, L. Crespo Campo, B. P. Crider, A. C. Dombos, R. Lewis, S. Mosby, F. Naqvi, G. Perdikakis, C. J. Prokop, S. J. Quinn, and S. Siem
Physical Review C 97 (2018) 054329.

10. *Benchmarking the extraction of neutron capture cross sections on short-lived nuclei for applications.*
S. N. Liddick, A. C. Larsen, M. Guttormsen, A. Spyrou, B. P. Crider, F. Naqvi, F. L. Bello Garrote, D. L. Bleuel, L. Crespo Campo, A. Couture, A. C. Dombos, F. Giacoppo, A. Gorgen, K. Hadynska-Klek, T. W. Hagen, V. W. Ingeberg, B. V. Kheswa, R. Lewis, S. Mosby, G. Perdikakis, C. J. Prokop, S. J. Quinn, B. Rubio, S. Siem, T. omm, S. J. Rose, E. Sahin, S. Siem, G. M. Tveten, M. Wiedeking, and F. Zeiser
Physical Review C (Accepted 2019)

11. *The impact of (n,γ) reaction rate uncertainties of unstable isotopes near N=50 on the i process nucleosynthesis in He-shell flash white dwarfs.*
P. Denisenkov, G. Perdikakis, F. Herwig, H. Schatz, C. Ritter, M. Pignatari, S. Jones, S. Nikas, A. Spyrou
Journal of Physics G 45 (2018) 055203.

12. *Cross section measurements of proton capture reactions on Se isotopes relevant to the astrophysical p process.*
V. Foteinou, S. Harissopulos, A. Lagoyannis, G. Provatas, M. Axiotis, A. Spyrou, G. Perdikakis, Ch. Zarkadas, P. Demetriou
Physical Review C 97 (2018) 035806.

13. *Confirmation of the isomeric state of ^{26}P*
D. Perez-Loureiro, C. Wrede, M. B. Bennett, S. N. Liddick, A. Bowe, B. A. Brown, A. A. Chen, K. A. Chipps, N. Cooper, E. McNeice, F. Naqvi, R. Ortez, S. D. Pain, J. Pereira, C. Prokop, S. J. Quinn, J. Sakstrup, M. Santia, S. B. Schwartz, S. Shanab, A. Simon, A. Spyrou, and E. Thiagalingam
Physical Review C 96 (2017) 014306

14. *Neutron-capture rates for explosive nucleosynthesis: the case of $^{68}Ni(n,\gamma)^{69}Ni$.*
A. Spyrou, A. C. Larsen, S. N. Liddick, F. Naqvi, B. P. Crider, A. C. Dombos, M. Guttormsen, D. L. Bleuel, A. Couture, L. Crespo Campo, R. Lewis, S. Mosby, M. R. Mumpower, G. Perdikakis, C. J. Prokop, S. J. Quinn, T. Renstrøm, S. Siem, and R. Surman
Journal of Physics G 44 (2017) 044002, Invited, Special Issue: "Emerging Leaders"
Highlighted JPhys+: https://jphysplus.iop.org/2017/04/26/nuclear-reactions-in-exploding-stars/

15. *Low-lying level structure of ^{56}Cu and its implications on the rp process.*
W-J. Ong, C. Langer, F. Montes, A. Aprahamian, D. W. Bardayan, D. Bazin, B. A. Brown, J. Browne, H. Crawford, R. Cyburt, E. B. Deleeuw, C. Domingo-Pardo, A. Gade, S. George, P. Hosmer, L. Keek, A. Kontos, I-Y. Lee, A. Lemasson, E. Lunderberg, Y. Maeda, M. Matos, Z. Meisel, S. Noji, F. M. Nunes, A. Nystrom, G. Perdikakis, J. Pereira, S. J. Quinn, F. Recchia, H. Schatz, M. Scott, K. Siegl, A. Simon, M. Smith, A. Spyrou, J. Stevens, S. R. Stroberg, D. Weisshaar, J. Wheeler, K. Wimmer, and R. G. T. Zegers
Physical Review C 95 (2017) 055806.

16. *Neutron-unbound excited states in ^{23}N.*
M.D. Jones, T. Baumann, J. Brett, J. Bullaro, P.A. DeYoung, J.E. Finck, N. Frank, K. Hammerton, J. Hinnefeld, Z. Kohley, A.N. Kuchera, J. Pereira, A. Rabeh, J.K. Smith, A. Spyrou, S.L. Stephenson, K. Stiefel, M. Tuttle-Timm, R.G.T. Zegers, and M. Thoennessen
Physical Review C 95 (2017) 044323.

17. *Isovector excitations in ^{100}Nb and their decays by neutron emission studied via the $^{100}Mo(t,^3He+n)$ reaction at 115 MeV/u.*
K. Miki, R. G. T. Zegers, Sam M. Austin, D. Bazin, B. A. Brown, A. C. Dombos, R. K. Grzywacz, M. N. Harakeh, E. Kwan, S. N. Liddick, S. Lipschutz, E. Litvinova, M. Madurga, M. T. Mustonen, W. J. Ong, S. V. Paulauskas, G. Perdikakis, J. Pereira, W. A. Peters, C. Robin, M. Scott, A. Spyrou, C. Sullivan, R. Titus
Physics Letters B 769 (2017) 339.

18. *Large fragmentation observed in the β-decay intensity of ^{70}Co.*
A. Spyrou, S. N. Liddick, F. Naqvi, B. P. Crider, A. C. Dombos, D. L. Bleuel, B. A. Brown, A. Couture, L. Crespo Campo, M. Guttormsen, A. C. Larsen, R. Lewis, P. Moller, S. Mosby, M.R. Mumpower, G. Perdikakis, C. J. Prokop, T. Renstrøm, S. Siem, S. J. Quinn, and S. Valenta
Physical Review Letters 117 (2016) 142701.

19. *Measurement of radiative proton capture of ^{18}F and implications for oxygen-neon novae.*
C. Akers, A.M. Laird, B.R. Fulton, C. Ruiz, D.W. Bardayan, L. Buchmann, G. Christian, B. Davids, L. Erikson, J. Fallis, U. Hager, D. Hutcheon, L. Martin, A. St.J. Murphy, K. Nelson, D. Ottewell, A. Rojas, and A. Spyrou
Physical Review C 94 (2016) 065803.

20. *Completing the nuclear reaction puzzle for ^{92}Mo.*
G. M. Tveten, A. Spyrou, R. Schwengner, F. Naqvi, A. C. Larsen, T. K. Eriksen, F. L. Bello Garrote, L. A. Bernstein, D. L. Bleuel, L. Crespo Campo, M. Guttormsen, F. Giacoppo, A. Gorgen, T. W. Hagen, K. Hadynska-Klek, M. Klintefjord, B. S. Meyer, H. T. Nyhus, T. Renstrøm, S. J. Rose, E. Sahin, S. Siem, and T. G. Tornyi
Physical Review C 94 (2016) 025804.

21. *β-delayed γ decay of ^{26}P.*
D. Perez-Loureiro, C. Wrede, M. B. Bennett, S. N. Liddick, A. Bowe, B. A. Brown, A. A. Chen, K. A. Chipps, N. Cooper, D. Irvine, E. McNeice, F. Montes, F. Naqvi, R. Ortez, S. D. Pain, J. Pereira, C. Prokop, J. Quaglia, S. J. Quinn, J. Sakstrup, M. Santia, S. B. Schwartz, S. Shanab, A. Simon, A. Spyrou, and E. Thiagalingam
Physical Review C 93 (2016) 064320.

22. *Total absorption spectroscopy of the β decay of ^{76}Ga.*
A. C. Dombos, D.-L. Fang, A. Spyrou, S. J. Quinn, A. Simon, B. A. Brown, K. Cooper, A. E. Gehring, S. N. Liddick, D. J. Morrissey, F. Naqvi, C. S. Sumithrarachchi, and R.G.T. Zegers
Physical Review C 93 (2016) 064317.

23. *Shape coexistence in $^{68,70}Ni$.*
B. P. Crider, C. J. Prokop, S. N. Liddick, M. Al-Shudifat, A. D. Ayangeakaa, M. P. Carpenter, J. J. Carroll, J. Chen, C. J. Chiara, H. M. David, A. C. Dombos, S. Go, R. Grzywacz, J. Harker, R. V. F. Janssens, N. Larson, T. Lauritsen, R. Lewis, S. J. Quinn, F. Recchia, D. Seweryniak, A. Spyrou, S. Suchyta, W. B. Walters, and S. Zhu

Physics Letters B 763 (2016) 108.

24. *Experimental neutron capture rate constraint far from stability.*
S. N. Liddick, A. Spyrou, B.P. Crider, F. Naqvi, A. C. Larsen, M. Guttormsen, M. Mumpower, R. Surman, G. Perdikakis, D. L. Bleuel, A. Couture, L. Crespo Campo, A. C. Dombos, R. Lewis, S. Mosby, S. Nikas, C. J. Prokop, T. Renstrom, B. Rubio, S. Siem, and S. J. Quinn
Physical Review Letters 116 (2016) 242502, Editor's Suggestion, Viewpoint highlight.

25. *A systematic study of proton capture reactions on medium-mass nuclei relevant to the p process: The case of ^{103}Rh and ^{113,115}In.*
S. Harissopulos, A. Spyrou, V. Foteinou, M. Axiotis, and G. Provatas, P. Demetriou
Physical Review C 93 (2016) 025804.

26. *Lifetime measurements in ^{102}Pd: Searching for empirical proof of the E(5) critical-point symmetry in nuclear structure*
T. Konstantinopoulos, S. F. Ashley, M. Axiotis, A. Spyrou, S. Harissopulos, A. Dewald, J. Litzinger, O. Möller, C. Müller-Gatterman, P. Petkov, D. R. Napoli, N. Marginean, G. de Angelis, C. A. Ur, D. Bazzacco, E. Farnea, S. M. Lenzi, R. Vlastou, and D. Balabanski
Physical Review C 93 (2016) 014320.

27. *New low-energy 0+ state and shape coexistence in ^{70}Ni*
C. J. Prokop, B. P. Crider, S. N. Liddick, A. D. Ayangeakaa, M. P. Carpenter, J. J. Carroll, J. Chen, C. J. Chiara, H. M. David, A. C. Dombos, S. Go, J. Harker, R. V. F. Janssens, N. Larson, T. Lauritsen, R. Lewis, S. J. Quinn, F. Recchia, D. Seweryniak, A. Spyrou, S. Suchyta, W. B. Walters, and S. Zhu
Physical Review C Rapid 92 (2015) 061302.

28. *Two-neutron sequential decay of ^{24}O*
M. D. Jones, N. Frank, T. Baumann, J. Brett, J. Bullaro, P. A. DeYoung, J. E. Finck, K. Hammerton, J. Hinnefeld, Z. Kohley, A. N. Kuchera, J. Pereira, A. Rabeh, W. F. Rogers, J. K. Smith, A. Spyrou, S. L. Stephenson, K. Stiefel, M. Tuttle-Timm, R. G. T. Zegers, and M. Thoennessen
Physical Review C 92 (2015) 051306.

29. *Population of ^{13}Be in a nucleon exchange reaction*
B. R. Marks, P. A. DeYoung, J. K. Smith, T. Baumann, J. Brown, N. Frank, J. Hinnefeld, M. Hoffman, M. D. Jones, Z. Kohley, A. N. Kuchera, B. Luther, A. Spyrou, S. Stephenson, C. Sullivan, M. Thoennessen, N. Viscariello, and S. J. Williams
Physical Review C 92 (2015) 054320.

30. *(α,γ) reaction measurements in the region of the light p nuclei*
S. J. Quinn, A. Spyrou, A. Simon, A. Battaglia, M. Bowers, B. Bucher, C. Casarella, M. Couder, P. A. DeYoung, A. C. Dombos, J. Görres, A. Kontos, Q. Li, A. Long, M. Moran, N. Paul, J. Pereira, D. Robertson, K. Smith, M. K. Smith, E. Stech, R. Talwar, W. P. Tan, and M. Wiescher
Physical Review C 92 (2015) 045805.

31. *Observation of Doppler broadening in β-delayed proton-γ decay*
S. B. Schwartz, C. Wrede, M. B. Bennett, S. N. Liddick, D. Pérez-Loureiro, A. Bowe, A. A. Chen, K. A. Chipps, N. Cooper, D. Irvine, E. McNeice, F. Montes, F. Naqvi, R. Ortez, S. D.

Pain, J. Pereira, C. Prokop, J. Quaglia, S. J. Quinn, J. Sakstrup, M. Santia, S. Shanab, A. Simon, A. Spyrou, and E. Thiagalingam
Physical Review C Rapid 92 (2015) 031302.

32. *Unbound excited states of the N=16 closed shell nucleus ^{24}O*
W. F. Rogers, S. Garrett, A. Grovom, R. E. Anthony, A. Aulie, A. Barker, T. Baumann, J. J. Brett, J. Brown, G. Christian, P. A. DeYoung, J. E. Finck, N. Frank, A. Hamann, R. A. Haring-Kaye, J. Hinnefeld, A. R. Howe, N. T. Islam, M. D. Jones, A. N. Kuchera, J. Kwiatkowski, E. M. Lunderberg, B. Luther, D. A. Meyer, S. Mosby, A. Palmisano, R. Parkhurst, A. Peters, J. Smith, J. Snyder, A. Spyrou, S. L. Stephenson, M. Strongman, B. Sutherland, N. E. Taylor, and M. Thoennessen
Physical Review C 92 (2015) 034316.

33. *Systematic study of (α,γ) reactions for stable nickel isotopes*
A. Simon, M. Beard, A. Spyrou, S. J. Quinn, B. Bucher, M. Couder, P. A. DeYoung, A. C. Dombos, J. Gorres, A. Kontos, A. Long, M. T. Moran, N. Paul, J. Pereira, D. Robertson, K. Smith, E. Stech, R. Talwar, W. P. Tan, and M. Wiescher
Physical Review C 92 (2015) 025806.

34. *Proton capture cross section of ^{72}Ge and astrophysical implications.*
F. Naqvi, S. J. Quinn, A. Spyrou, A. Battaglia, M. Couder, P. A. DeYoung, A. C. Dombos, X. Fang, J. Gorres, A. Kontos, Q. Li, S. Lyons, D. Robertson, A. Simon, K. Smith, M. K. Smith, E. Stech, W. P. Tan, and M. Wiescher
Physical Review C 92 (2015) 025804.

35. *Three-body correlatios in the ground state of ^{26}O.*
Z. Kohley, T. Baumann, G. Christian, P.A. DeYoung, J.E. Finck, N. Frank, B. Luther, E. Lunderberg, M. Jones, S. Mosby, J. K. Smith, A. Spyrou, and M. Thoennessen
Physical Review C 91 (2015) 034323.

36. *SuNSCREEN:A cosmic-ray veto detector for capture-reaction measurements*
E. Klopfer, J. Brett, P.A. DeYoung, A. C. Dombos, S. J. Quinn, A. Simon, A. Spyrou
Nuclear Instruments and Methods A 788 (2015) 5.

37. *Search for unbound ^{15}Be states in the $3n+^{12}Be$*
A. N. Kuchera, A. Spyrou, J. K. Smith, T. Baumann, G. Christian, P. A. DeYoung, J. E. Finck, N. Frank, M. D. Jones, Z. Kohley, S. Mosby, W. A. Peters, and M. Thoennessen
Physical Review C 91 (2015) 017304.

38. *Selective population of unbound states in ^{10}Li*
J.K. Smith, T. Baumann, J. Brown, P. A. DeYoung, N. Frank, J. Hinnefeld, Z. Kohley, B. Luther, B. Marks, A. Spyrou, S. L. Stephenson, M. Thoennessen, S. J. Williams
Nuclear Physics A 940 (2015) 235.

39. *Further insights into the reaction $^{14}Be(CH_2,X)^{10}He$*
M.D. Jones, Z. Kohley, T. Baumann, G. Christian, P.A. DeYoung, J.E. Finck, N. Frank, R.A. Haring-Kaye, A.N. Kuchera, B. Luther, S. Mosby, J.K. Smith, J. Snyder, A. Spyrou, S.L. Stephenson, and M. Thoennessen
Physical Review C 91 (2015) 044312.

40. *Novel technique for extracting r-process (n,γ) reaction rates*

A. Spyrou, S. N. Liddick, A. C. Larsen, M. Guttormsen, K. Cooper, A. C. Dombos, D. J. Morrissey, F. Naqvi, G. Perdikakis, S. J. Quinn, T. Renstrøm, J. A. Rodriguez, A. Simon, C. S. Sumithrarachchi, and R. G. T. Zegers
Physical Review Letters 113 (2014) 232502.

41. *Low-lying neutron unbound states in ^{12}Be*
J.K. Smith, T. Baumann, D. Bazin, J. Brown, S. Casarotto, P.A. DeYoung, N. Frank, J. Hinnefeld, M. Hoffman, M.D. Jones, Z. Kohley, B. Luther, B. Marks, N. Smith, J. Snyder, A. Spyrou, S.L. Stephenson, M. Thoennessen, N. Viscariello, and S.J. Williams
Physical Review C 90 (2014) 024309.

42. *^{19}Mg Two-Proton Decay Lifetime*
P. Voss, T. Baumann, D. Bazin, A. Dewald, H. Iwasaki, D. Miller, A. Ratkiewicz, A. Spyrou, K. Starosta, M. Thoennessen, C. Vaman, and J.A. Tostevin
Physical Review C 90 (2014) 014301.

43. *Identification of important resonances for rp-process reactions with GRETINA*
C. Langer, F. Montes, A. Aprahamian, D. W. Bardayan, D. Bazin, B. A. Brown, J. Browne, H. Crawford, R. Cyburt, C. Domingo-Pardo, A. Gade, S. George, P. Hosmer, L. Keek, A. Kontos, I-Y. Lee, A. Lemasson, E. Lunderberg, Y. Maeda, M. Matos, Z. Meisel, S. Noji, F. M. Nunes, A. Nystrom, G. Perdikakis, J. Pereira, S. J. Quinn, F. Recchia, H. Schatz, M. Scott, K. Siegl A. Simon, M. Smith, A. Spyrou, J. Stevens, S. R. Stroberg, D. Weisshaar, J. Wheeler, K. Wimmer, and R. G. T. Zegers
Physical Review Letters 113 (2014) 032502, Editor's suggestion.

44. *First application of the γ-summing technique in inverse kinematics*
S. J. Quinn, A. Spyrou, A. Simon, A. Battaglia, M. Bowers, B. Bucher, C. Casarella, M. Couder, P. A. DeYoung, A. C. Dombos, J. P. Greene, J. Gorres, A. Kontos, Q. Li, A. Long, M. Moran, N. Paul, J. Pereira, D. Robertson, K. Smith, M. K. Smith, E. Stech, R. Talwar, W. P. Tan, M. Wiescher
Nuclear Instruments and Methods 757(2014) 62.

45. *Measurement of the ^{58}Ni(α,γ)^{62}Zn reaction and its astrophysical impact*
S. J. Quinn, A. Spyrou, E. Bravo, T. Rauscher, A. Simon, A. Battaglia, M. Bowers, B. Bucher, C. Casarella, M. Couder, P. A. DeYoung, A. C. Dombos, J. Gorres, A. Kontos, Q. Li, A. Long, M. Moran, N. Paul, J. Pereira, D. Robertson, K. Smith, M. K. Smith, E. Stech, R. Talwar, W. P. Tan, and M. Wiescher
Physical Review C 89 (2014) 054611.

46. *Shape coexistence in ^{68}Ni*
S. Suchyta, S. N. Liddick, Y. Tsunoda, T. Otsuka, M. B. Bennett, A. Chemey, M. Honma, N. Larson, C. J. Prokop, S. J. Quinn, N. Shimizu, A. Simon, A. Spyrou, V. Tripathi, Y. Utsuno, and J. M. VonMoss
Physical Review C Rapid 89 (2014) 021301.

47. *Classical-nova contribution to the Milky Way's ^{26}Al abundance: Exit channel of the key ^{25}Al(p,γ)^{26}Si resonance*
M. B. Bennett, C. Wrede, K. A. Chipps, J. JosÅLe, S. N. Liddick, M. Santia, A. Bowe, A. A. Chen, N. Cooper, D. Irvine, E. McNeice, F. Montes, F. Naqvi, R. Ortez, S. D. Pain, J. Pereira, C. Prokop, J. Quaglia, S. J. Quinn, S. B. Schwartz, S. Shanab, A. Simon, A. Spyrou, and E. Thiagalingam

Physical Review Letters 111 (2013) 232503.

48. *Exploiting neutron-rich radioactive ion beams to constrain the symmetry energy*
Z. Kohley, G. Christian, T. Baumann, P.A. DeYoung, J.E. Finck, N. Frank, M. Jones, J. K. Smith, J. Snyder, A. Spyrou, and M. Thoennessen
Physical Review C 88 Rapid (2013) 041601.

49. *Novel Techniques to Search for Neutron Radioactivity*
M. Thoennessen, G. Christian, Z. Kohley, T. Baumann, M. Jones, J.K. Smith, J. Snyder, A. Spyrou
Nuclear Instruments and Methods in Physics Research A 729 (2013) 207.

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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, Conference Proceedings, Vol. 831 (2006) 532.

17. *Lifetime measurements in the Yrast magnetic band in ^{193}Pb.*
K. A. Gladnishki, D. L. Balabanski, P. Petkov, A. Dewald, D. Tonev, M. Axiotis, A. Fitzler, M. Danchev, S. Harissopulos, S. Lalkovski, N. Marginean, T. Martinez, O. Moeller, G. Neyens, A. Spyrou, E. A Stefanova and C. Ur
J. Phys. G 31 (2005) S1559.

18. Reaction channels of ^{6,7}Li+^{28}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.

19. 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.

20. Systematic measurements of proton- and alpha-capture cross sections relevant to the modeling of the p process.
S. Harissopulos, A. Spyrou, A. Lagoyannis, Ch. Zarkadas, H.-W. Becker, C. Rolfs, F. Strieder, J. W. Hammer, A. Dewald, K.-O. Zell, P. von Brentano, R. Julin, P. Demetriou, S. Goriely
Nuclear Physics A, 758 (2005) 505.

21. *Alpha-capture reactions relevant to the p-process nucleosynthesis.*
A. Spyrou, A. Lagoyannis, Ch. Zarkadas, P. Demetriou, S. Harissopulos, H-W. Becker, F. Strieder, C. Rolfs, A. Dewald, K.-O. Zell, P. von Brentano and R. Julin
FINUSTAR Conference, Frontiers in Nuclear Structure, Astrophysics and Reactions, Kos, Greece, 12 - 17 September, 2005

AIP, Conference Proceedings, Vol. 831, (2006), 314.

22. *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 Nuclear Science Symposium Conference Record Volume 1, 2004, p. 667

23. *A systematic study of proton-capture cross sections in the Se-Sb region with relevance to the p-process nucleosynthesis.*
S. Harissopulos, P. Demetriou, S. Galanopoulos, M. Kokkoris, G. Kriembardis, P. Tsagari, A. Spyrou, G. Kalyva, Ch. Zarkadas, A.G. Karydas, J.W. Hammer, R. Kunz, M. Fey, E. Somorjai, Gy. Gyurky, Zs. Fulop, A. Dewald, K.O. Zell, P. von Brentano, R. Julin, S. Goriely
Proceedings of the Eleventh International Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Pruhonic near Prague, Czech Republic 2002, J. Kvasil, P. Cejnar, M. Krticka Eds., Singapore 2003, World Scientific

24. A systematic study of proton capture reactions in the Se-Sb region at energies relevant to p process.
S. Harissopulos, S. Galanopoulos, P. Demetriou, A. Spyrou, G. Kriembardis, M. Kokkoris, A.G. Karydas, Ch. Zarkadas, R. Kunz, M. Fey, J.W. Hammer, Gy. Gyurky, Zs. Fulop, E. Somorjai, A. Dewlad, K.O. Zell, P. von Brentano, R. Julin, and S. Goriely
Nucl. Phys. A, 719 (2003) 115c.

Invited Talks

1. *Nuclear Astrophysics Research with the SuN detector*
Workshop on Nuclear Astrophysics Opportunities at ATLAS
Argonne National Laboratory, July 12-23, 2019

2. *Constraining neutron-capture cross sections for the r-process*
Workshop on "Nuclear and astrophysics aspects for the rapid neutron capture process in the era of multi-messenger observations"
ECT*, Trento, Italy, July1-5, 2019

3. *Nucleosynthesis around ^{60}Fe via indirect neutron-capture reaction studies*
Workshop on Nuclear Level Density and Gamma Strength Function
Oslo, Norway, May 27-31, 2019

4. *Instrumentation at FRIB and ReA for nuclear astrophysics experiments*
APS April Meeting
Denver, CO, April 13-16, 2019

5. *Neutron-capture reactions for the astrophysical r-process*
Workshop on Indirect Methods in Nuclear Astrophysics
ECT*, Trento, Italy, November 5-9, 2018

6. *Nuclear structure and reactions for neutron-star merger nucleosynthesis*
Nuclear Physics for the Next Generation
London, UK, September 12-14, 2018

7. *Nuclear structure and reactions to understand the GW170817 kilonova*

FRIB Theory Alliance program: "FRIB and the GW170817 kilonova"
East Lansing, MI, July 16-27, 2018

8. *Neutron Star Mergers and New Opportunities in Rare Isotope Research*
World Science Festival – Workshop on Nuclear Physics learned from GW170817
New York City, NY, May 30th, 2018

9. *Physics and student opportunities at FRIB*
AAAS Emerging Researchers National Conference 2018
Washington, DC, February 22-24, 2018

10. *Nuclear Level Densities and neutron-gamma competition above the neutron threshold*
FRIB Decay Station Workshop
East Lansing, MI, January 25-26, 2018

11. *Neutron Star Mergers and New Opportunities in Rare Isotope Research*
JINA Live Stream Event
East Lansing, MI, December 1, 2017

12. *Lectures on Nuclear Astrophysics*
Summer School on Advanced Nuclear Reactions and Applications to Astrophysics
Stellenbosch, South Africa, November 8-22, 2017

13. *Neutron-capture reactions for the astrophysical r-process*
2017 Capture Gamma Ray Conference
Shanghai, China, September 8-12, 2017

14. *Nuclear Astrophysics*
2017 STFC Nuclear Physics Summer School
Queens University, Belfast, Northern Ireland, 21-25 August, 2017

15. *Experimental Nuclear Astrophysics*
TRIUMF Summer Institute
Vancouver, Canada, July 24 – August 4, 2017

16. *γ-ray strength and neutron captures reactions for astrophysics*
ARIS 2017
Keystone, Colorado, USA, May 28 – June 2, 2017

17. *Neutron captures far from stability and astrophysical implications*
Workshop on Nuclear Level Density and Gamma Strength Function
Oslo, Norway, May 8-12, 2017

18. *New Science Opportunities at NSCL/FRIB*
Workshop "New Science Opportunities at RIB facilities"
APS DNP Fall meeting 2016
Vancouver, Canada, 13 - 16 October, 2016

19. *Experimental studies of the astrophysical r-process.*
Zakopane Conference on Nuclear Physics 2016
Zakopane, Poland, 28 August – 3 September, 2016

20. *Constraining neutron-capture rates far from stability and astrophysical implications.*
Canadian Association of Physicists Annual Congress
Ottawa, Canada, 13-17 June, 2016

21. *β-decay studies for the astrophysical r-process*
ICNT Workshop: r-process nucleosynthesis, connecting FRIB with the cosmos
East Lansing, MI, 31 May - 17 June, 2016

22. *Nuclear structure studies for the astrophysical r-process*
Modern Aspects in Nuclear Structure: "The Many Facets of Nuclear Structure"
Bormio, Italy, 22-28 February, 2016

23. *Constraining (n,γ) reaction cross sections for astrophysical applications*
COMEX5, Collective Motion in Nuclei under Extreme Conditions
Krakow, 14-18 September, 2015

24. *Using beta-decays to constrain (n,γ) reaction cross sections on short lived nuclei*
Theory for open-shell nuclei near the limits of stability
East Lansing, 11-29 May, 2015

25. *A novel technique for constraining (n,γ)reaction cross sections on short-lived nuclei*
5th Workshop on Level Density and Gamma Strength
Oslo, 18-22 May, 2015

26. *Neutron-neutron correlations in the decay of light neutron-unbound nuclei.*
21st International Conference on Few-Body Systems
Chicago, 18-22 May, 2015

27. *p-process overview: (p,γ) and (α,γ) reactions in regular and inverse kinematics.*
Nuclei in the Cosmos 2014
Debrecen, Hungary, 6-11 July, 2014

28. *Nuclear structure along the neutron-dripline*
Annual retreat and Center Advisory Committee of the Center for Radioactive Ion Beam Studies for Stewardship and Research
East Lansing, MI, 11-13 June, 2014

29. *Towards Radioactive beam experiments* for the astrophysical p-process
23rd CAARI
San Antonio, Texas, 25-30 May, 2014

30. *Three-body forces in two neutron decay experiments.*
ECT* Workshop: “Three-body forces: From Matter to Nuclei”
Trento, Italy, 5-9 May, 2014

31. *p-process: Towards Radioactive beam experiments*
11th Russbach School on Nuclear Astrophysics
Russbach, Austria, 9-15 March, 2014

32. *Study of neutron unbound states with MoNA-LISA*

DNP Satellite Workshop on the nature of unstable nuclear systems,
DNP Fall meeting, 25-29 October 2012, Newport Beach, CA

33. *Nuclear structure along the neutron drip line*
8th Balkan School on Nuclear Physics,
Bulgaria, July 3 – 12, 2012

34. *p-process: Towards Radioactive beam measurements*
24th Carpathian Summer School of Physics (CSSP12),
Romania, June 24 – July 7, 2012

35. *Recent Results from MoNA/LISA*
APS April meeting 2012,
Atlanta, GA, March 31 – April 04 2012

36. *Nuclear physics aspects of p-process*
220th AAS meeting
Anchorage, AK, June 10-14 2012

37. *New experimental work on structure beyond the neutron dripline*
Gordon Research Conference: Nuclear Chemistry
Colby-Sawyer College, NH, June 12-17, 2011

38. *Nuclear Structure Beyond the Neutron Drip Line*
Workshop on "The Limits of Existence of Light Nuclei"
ECT* Trento, Italy, October 25-30, 2010

39. *Particle Induced Reactions: Direct measurements*
Workshop on "Data Requirements in Nuclear Astrophysics",
Darmstadt, Germany, 25-27 July, 2010

40. *Unbound systems along the neutron drip line.*
Workshop on Perspectives on the modern shell model and related experimental topics.
Michigan State University, East Lansing, MI, Feb. 4-6 2010.

41. *Measuring reaction cross sections to understand the p process.*
Workshop on Statistical Nuclear Physics and Applications in Astrophysics and Technology.
Ohio University, Athens, Ohio, July 8-11 2008.

Seminars - Colloquia

1. *Exploding Stars and the Synthesis of Heavy Elements*
Colloquium at Department of Physics, University of Guelph, Canada, January 2020

2. *Making Gold and Other Heavy Elements in the Universe*
Colloquium at Department of Physics and Astronomy, Michigan State University, October 2019

3. *Nuclear Physics Aspects of Stellar Explosions*

Colloquium at Department of Physics and Astronomy, Michigan State University, October 2018

4. *Nuclear Physics Aspects of Stellar Explosions*
Colloquium at Physics Department, University of Notre Dame, April. 2018

5. *Nuclear Physics Aspects of Stellar Explosions*
Colloquium at Physics Department, North Carolina State University, Jan. 2017

6. *New experiments for constraining (n,γ) reaction and the impact on r-process nucleosynthesis*
LBNL, November 2015

7. *Nuclear Physics Aspects of Stellar Explosions*
Department of Physics and Astronomy, Swarthmore College, November 2015

8. *New experiments for constraining (n,γ) reaction and the impact on r-process nucleosynthesis*
Joint Institute for Nuclear Astrophysics, Michigan State University, November 2015

9. *Nuclear Physics Aspects of the Astrophysical p-process*
Department of Physics and Astronomy, Ohio University, March 2015

10. *Nuclear Physics Aspects of the Astrophysical p-process*
Physics Division Seminar, Argonne National Laboratory, September 2014

11. *Nuclear structure along the neutron-dripline*
Annual retreat and Center Advisory Committee of the Center for Radioactive Ion Beam Studies for Stewardship and Research
East Lansing, MI, 11-13 June, 2014

12. *Nuclear astrophysics: How the elements are made.*
Seminar at MSU for the Society of Physics Students, March 2013.

13. *Nuclear Structure along the Neutron Dripline.*
Colloquium at Fermi Lab, September 2012.

14. *Measuring Nuclear Reactions to understand Stellar Nucleosynthesis.*
Seminar at MSU for the REU students, July 2012.

15. *Nuclear structure along the neutron drip line: recent results of MoNA.*
Seminar at Argonne National Lab, April 2012.

16. *First observation of ground state di-neutron decay: ^{16}Be.*
Seminar, NSCL, February 2012.

17. *Measuring Nuclear Reactions to understand Stellar Nucleosynthesis.*
Seminar, MSU for the REU students, July 2011.

18. *The astrophysical p process: recent and future experimental efforts.*
Seminar, TUNL, March 2011.

19. *Measuring nuclear reactions to understand stellar nucleosynthesis.*

Seminar, Department of Physics, Western Michigan University, February 2011.

20. *Traveling beyond the neutron dripline with MoNA.*
Seminar, Oak Ridge National Lab, June 2010.

21. *Studying exotic nuclei with the Modular Neutron Array (MoNA).*
Seminar, Department of Physics, Grand Valley State University, November 2009.

22. *Unbound systems along the neutron drip line.*
Seminar, NSCL, Michigan State University, March 2009.

23. *Measuring reaction cross sections to understand the p process.*
Seminar, Institute for Structure and Nuclear Astrophysics, University of Notre Dame, November 2008.

24. *Studying exotic nuclei with the Modular Neutron Array (MoNA).*
Seminar, Physics Department of Indiana University South Bend, November 2008.

25. *Studying nuclear reactions to understand the stellar cauldrons.*
Seminar, Physics Department of Central Michigan University, October 2008.

26. *Cross section measurements of (p,γ) and (α,γ) reactions at energies relevant to p-process.*
Seminar, NSCL, Michigan State University, February 2007.

27. *Cross section measurements of (p,γ) and (α,γ) reactions at energies relevant to p-process.*
Seminar, Department of Experimentalphysik III of the University of Bochum, Germany, December 2005.