

Paul A. DeYoung

Department of Physics
Hope College
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Education and Employment

Associate Science Degree, Muskegon Community College	1975
B.A., Hope College	1977
Graduated Summa Cum Laude	
Elected to Phi Beta Kappa	
Ph.D., University of Notre Dame	1982
Fusion Cross Section Measurements for the $^{12}\text{C}+^{20}\text{Ne}$, $^{14}\text{N}+^{14}\text{N}$, and $^{14}\text{N}+^{10}\text{B}$ Systems.	
Schmidt Fellow for 1977-78 academic year	
Post-doctoral Research, Nuclear Structure Laboratory, SUNY	1982 – 1985
Assistant Professor, Hope College	1985 – 1991
Associate Professor, Hope College	1991 – 1997
Professor, Hope College	1997 – 2005
Chairman of the Department of Physics, Hope College	1995 – 2004
Kenneth G. Herrick Professor of Physics, Hope College	2005 – present
Chairman of the Department of Physics, Hope College	2021 – present

Teaching Fields

Primary: Physics

Secondary: Nuclear Physics

Courses Taught

Fall (F), Spring (S), Summer (Su), Multiple sections only listed once.

Phys105 College Physics I (F11, Su11, F12, Su13, Su14, Su15, F15, Su16, F16, Su17, F17, Su18, Su19, F19, Su20, F20)

Phys106 College Physics II (S13, S14, Su14, S16, S17, S18, S20, S21)

Phys111 Introduction to Physics (F07, F08)

Phys112 Introduction to Modern Physics (F05, F06, F07, F08)

Phys121 General Physics I (F88, F89, F90, F91, F92, F94, F97, F98, F99, F00, F01, F02, S03, S04, S06, S07, S08, S11, F12, F13, S15)

Phys122 General Physics II (F89, S90, S91, S92, S94, S98, S01, F05, F06, F07, F08, S00, S13, S14, F14, F21)

Phys141 Physics Lab I (F85, F86, F87, F93, F97, S06, S07, S08, S09, S10, F13, F15, F16, F17, F20)

Phys142 Physics Lab II (S86, S88, S01, F05, F06, F08, F10, S13, S14, S17, S19, S20, S21)

Phys160 Scientific Computer Programming (F91, S94)

Phys195 Accelerator Operations (S17)

Phys241 Electronics Lab (F85)

Phys242 Electronics II (S93)

Phys243 Electronics Lab II (S93)

Phys270 Modern Physics (F85, F86, F87, F92, F93, S09)

Phys280 Introduction to Mathematical Physics (S90, S97, S98, S99, S00, S02, S03, S06, S07, S08, S09, S10, S11, S15, S16, S17, S18, S19, S20, S21)

Phys281 Intermediate Laboratory (S15, S21)

Phys282 Special Relativity (F94, F95, S96)

Phys295 Research (S86, S92)

Phys295 Nuclear Arm Technology (S87, F89)

Phys295 Special Relativity (S94, F95)

Phys295 Studies in Chaos (S95)

Phys295 Physics of Sound (S09)

Phys295 LABView (S10, S16)

Phys295 Nuclear and Particle Physics (S18)

Phys342 Electricity and Magnetism (S86, S87, S88, S89, S93, S95, S96, S97)

Phys352 Optics (F99, F06)

Phys361 Analytical Mechanics (S03, F05)

Phys362 Thermodynamics and Statistical Mechanics (F20)

Phys380 Mathematical Physics II (S07, F15, F17, F19)

Phys381 Advanced Laboratory (F86, F87, F88, F94, F95, F98, F03, S04)

Phys382 Advanced Laboratory (S86, S87, S88, S95, S96, S99, F19, F21)

Phys372 Quantum Mechanics (F95, F00, F10, F12, F14, F16)

Phys495 LABView (S04)

Phys495 Accelerator and Detector Technology (S08)

IDS100 First Year Seminar (F01, F02, F07, F09)

IDS421 Senior Seminar, (S00)

GEMS295 Shake, Rattle, and Roll (S02)

Honors and Organization Memberships

Named a Fellow of the American Physical Society in 2012.

Received the 2001 Prize to a Faculty Member for Research in an Undergraduate Institution from the American Physical Society. Served as research mentor to 60 undergraduate students including several from institutions other than Hope College.

National Superconducting Cyclotron User Executive Committee (2004-2007).

Executive Director of the MoNA collaboration (2004-2005, 2008-2009).

Member of the American Physical Society since 1983.

Member of Sigma Xi since 1981 (Secretary/Treasurer of the Hope College Chapter 1987-1990, President during 1994-1995, Served as Associate Director for the Baccalaureate Colleges Constituency Group for two years).

Member of the Council for Undergraduate Research since 1991 (physics councilor 1991-2000).

Received the 2011 prize for the exceptional undergraduate researcher within the Division of Natural and Applied Science at Hope College.

Grant Support

RUI: Nuclear Physics at Hope College With Undergraduates: New Science Enhancing the STEM Workforce. 2019 NSF PHY-190034 (\$240,000).

RUI: High Impact Nuclear Physics Research With Undergraduates. 2016 NSF PHY-1613188 (\$251,859).

RUI: Cutting-Edge Nuclear Physics Research (Collaborative and Interdisciplinary) at Hope College. 2013 NSF PHY1306074 (\$299,106).

MRI-Consortium: Development of a Neutron Detector Array by Undergraduate Research Students for Studies of Exotic Nuclei, 2009 NSF PHY0922794 (\$203,894). (This is the lead proposal for a MoNA Collaboration request from nine undergraduate institutions totalling \$1.2 million.)

RUI: Studies of Unstable Neutron-Rich Nuclei and Interdisciplinary Applications of Nuclear Physics with Undergraduates, 2010 NSF PHY0969058 (\$295,683).

RUI: Fundamental and Applied Nuclear Physics with Undergraduates, 2007 NSF PHY0651627 (\$311,079).

RUI: Multifaceted Opportunities in Nuclear Physics for Undergraduates at Hope College, 2004 NSF PHY0354920 (\$213,252).

MRI; Consortium to Construct a Highly Efficient Neutron Detector Array for the NSCL (Hope College), 2002 NSF PHY0132405 (\$93,626)

RUI: Radioactive Nuclear Beam Physics with Undergraduates at Hope College, 2001 NSF PHY0098061 (\$166,879).

Research in Nuclear Physics with Undergraduates at Hope College, 1998 NSF PHY9870262 (\$161,245).

Research Experiences for Undergraduates in Physics and Engineering at Hope College, 1998 NSF PHY9876955 (\$90,251)

RUI: Heavy-Ion Reaction Studies at Hope College, 1995 NSF PHY9509900 (\$172668)

Research Experiences for Undergraduates in Physics and Engineering at Hope College, 1995 NSF PHY9515517 (\$120,000)

Acquisition of a CAMAC Based Data-Taking System and Computers to Enhance Research Programs at an Undergraduate Institution, 1994 NSF PHY9413439 (\$60,034)

RUI: Information About Composite Nucleus Decay and Emitted Particles: Correlation Measurements and Intermediate Mass Fragment Studies, 1992 NSF PHY9208787 (\$127,090)

Coordinating the Teaching of Physics and Mathematics Using a Common Computer System, NSF DUE9151925 (\$98,7000)

RUI Equipment: A Detector System for the Study of Heavy-Ion Reaction Mechanisms, 1989 NSF PHY8913030 (\$32,966)

RUI: Studies of Excited Nuclei in Heavy Ion Reactions, 1989 NSF PHY8907170 (\$93,690)

RUI: Light Particle Emission in Heavy Ion Reactions, 1986 NSF PHY8606375 (\$84,000)

Light Particle Emission in Heavy Ion Reactions, 1986 Research Corporation (\$19,000)

College Wide Committee Assignments

Academic Computing Committee, member (chair 1992–93), 7/88–6/93, 7/05–6/06, 7/07–6/08, 7/09–6/10

Curriculum Committee, member, 7/94–6/96, 7/97–6/98

Academic Affairs Board, member (secretary 1995–99), 7/94–6/96, 7/97–6/98

Status Committee, member, 7/00–6/02, 7/06–6/08

President’s Advisory Committee, member, 7/09–6/11

Teacher Education Council, member, 7/10–6/11

Appeal & Grievances Panel, member (chair 2012–16), 7/12–6/18, 7/21–

Student Standing and Appeals Committee 7/20–6/21

Other Recent Assignments

Departmental Computer System Manager, 1989–

Distinguished Alumni Selection committee, 2005–2007

Provost’s ad hoc committee on hiring without terminal degree, 2009

Recent Community Service

External department reviewer for Rollins College, Murray State University, Hollins University, St. Johns University, Fairfield University, Moravian College, Ouchita Baptist University and SUNY-Geneseo.

Reviewer for American Journal of Physics, Physical Review C, Nuclear Instruments and Methods, Department of Energy, and the National Science Foundation.

Served on the APKER Prize selection committee for the American Physical Society.

Alternate Board Member for Calvin College.

Regular blood donor.

Publications

(Student authors are indicated by an *.)

1. Inclusive α -particle Production in the $^{12}\text{C}+^{12}\text{C}$ Reaction. J.J. Kolata, R.E. Malmin, P.A. DeYoung, S.D. Davis, and R.C. Luhn. *Phys. Rev. C* **21**, 776 (1980).
<http://link.aps.org/doi/10.1103/PhysRevC.21.776>
2. Reaction-product Velocity Measurement for the $^{16}\text{O}+^{16}\text{O}$ and $^{12}\text{C}+^{20}\text{Ne}$ System. P.A. DeYoung, J.J. Kolata, R.C. Luhn, R.E. Malmin, and S.N. Tripathi. *Phys. Rev. C* **24**, 166 (1981).
<http://link.aps.org/doi/10.1103/PhysRevC.24.166>
3. Gamma-Ray Studies of $^{12}\text{C}+^{20}\text{Ne}$ Reactions. P.A. DeYoung, J.J. Kolata, R.C. Luhn, R.E. Malmin, S.N. Tripathi. *Phys. Rev. C* **25**, 1420 (1982).
<http://link.aps.org/doi/10.1103/PhysRevC.25.1420>
4. Reaction Cross Sections for $^{14}\text{N}+^{14}\text{N}$. P.A. DeYoung, J.J. Kolata, L.J. Satkowiak, and M.A. Xapsos. *Phys. Rev. C* **26**, 1482 (1982).
<http://link.aps.org/doi/10.1103/PhysRevC.26.1482>
5. Gamma-ray Studies of the $^{16}\text{O}+^{20}\text{Ne}$ System. M.A. Xapsos, P.A. DeYoung, L.J. Satkowiak, and J.J. Kolata. *Phys. Rev. C* **25**, 2457 (1982).
<http://link.aps.org/doi/10.1103/PhysRevC.25.2457>
6. Gamma-ray Studies of the $^{12}\text{C}+^{12}\text{C}$ System. L.J. Satkowiak, P.A. DeYoung, J.J. Kolata, and M.A. Xapsos. *Phys. Rev. C* **26**, 2027 (1982).
<http://link.aps.org/doi/10.1103/PhysRevC.26.2027>
7. A New Level of ^{18}F . R.M. Freeman, P.A. DeYoung, L.S. Satkowiak, M.A. Xapsos, and J.J. Kolata. *Nucl. Phys.* **A385**, 516 (1982).
[http://dx.doi.org/10.1016/0375-9474\(82\)90101-4](http://dx.doi.org/10.1016/0375-9474(82)90101-4)
8. Reaction Cross Sections for $^{14}\text{N}+^{10}\text{B}$. P.A. DeYoung, J.J. Kolata, L.J. Satkowiak, and M.A. Xapsos. *Phys. Rev. C* **28**, 692 (1983).
<http://link.aps.org/doi/10.1103/PhysRevC.28.692>
9. Low-Energy Fusion of $^{28}\text{Si}+^{12}\text{C}$. R.A. Racca, P.A. DeYoung, J.J. Kolata, and R.J. Thornburg. *Phys. Lett.* **129B**, 294 (1983).
[http://dx.doi.org/10.1016/0168-9002\(84\)90080-9](http://dx.doi.org/10.1016/0168-9002(84)90080-9)
10. A Single Element NaI(Tl) Light Particle Detector. P.A. DeYoung, R.L. McGrath, W.F. Piel, Jr. *Nucl. Inst. and Meth.* **A226**, 555 (1984).
[http://dx.doi.org/10.1016/0168-9002\(84\)90080-9](http://dx.doi.org/10.1016/0168-9002(84)90080-9)
11. Neutron Spectra and Level Density Parameters from the $^{16}\text{O}+^{12}\text{C}$ Fusion Reaction. J. Kasagi, B. Remington, A. Galonsky, F. Haas, J.J. Kolata, L. Satkowiak, P. DeYoung, M. Xapsos, R. Racca and F.W. Prosser. *Phys. Rev. C* **31** 858 (1985). (Name was inadvertently omitted. See Errata, *Phys. Rev. C* **32**, 1107 (1985)).
1107–1107 <http://link.aps.org/doi/10.1103/PhysRevC.32.1107>

12. Structure in the Fusion Yield for $^{32}\text{S}+^{12}\text{C}$. J.J. Kolata, R.A. Racca, P.A. DeYoung, E. Aguilera-Reyes, and M.A. Xapsos. *Phys. Rev. C* **32**, 1080 (1985).
<http://link.aps.org/doi/10.1103/PhysRevC.32.1080>
13. Subbarrier fusion measurements for the system $^{32}\text{S} + ^{238}\text{U}$. R. H. Freifelder, P. Braun-Munzinger, P. DeYoung, L. Ricken, R. Schicker, S. Sen, J. Stachel and P. H. Zhang. *Lecture Notes in Physics, Springer Berlin/Heidelberg, Fusion Reactions Below the Coulomb Barrier*, **219**, 340 (1985).
14. Pion production: A probe for coherence in medium-energy heavy-ion collisions. J. Stachel, P. Braun-Munzinger, R.H. Freifelder, P. Paul. S. Sen, P. DeYoung, P.H. Zhang, T.C. Awes, F.E. Obenshain, F. Plasil, G.R. Young, R. Fox, and R. Ronningen. *Phys. Rev. C* **33**, 1420 (1986).
<http://link.aps.org/doi/10.1103/PhysRevC.33.1420>
15. Search for the Structure in the Fusion of $^{28}\text{Si}+(^{28}\text{Si},^{30}\text{Si})$ and $^{30}\text{Si}+^{30}\text{Si}$. E.F. Aguilera, J.J. Kolata, P.A. DeYoung, and J.J. Vega. *Phys. Rev. C* **33**, 1961 (1986).
<http://link.aps.org/doi/10.1103/PhysRevC.33.1961>
16. Large Angle Correlations in Evaporative Particle Emission: Shape Distortion? Surface Expansion?. R. Lacey, N.N. Ajitanand, J.M. Alexander, D.M. De Castro Rizzo, G.F. Peaslee, L.C. Vaz, G. La Rana, M. Kaplan, D.J. Moses, W. Parker, D. Logan, and P. DeYoung. *Journal de Physique C4*, 47 (1986).
<http://dx.doi.org/10.1051/jphyscol:1986433>
17. Surprising Properties of the Nuclear Stratosphere Indicated by Energy Spectra and Large-Angle Correlations Between ^4He and $^{1,2,3}\text{H}$ or ^4He . R. Lacey, N.N. Ajitanand, J.M. Alexander, D.M. de Castro Rizzo, P. DeYoung, M. Kaplan, L. Kowalski, G. La Rana, D. Logan, D.J. Moses, W.E. Parker, G.F. Peaslee, and L.C. Vaz. *Phys. Lett.* **191B**, 253 (1987).
<http://www.sciencedirect.com/science/article/pii/0370269387902504>
18. Symmetric splitting for the system $^{32}\text{S}+^{238}\text{U}$ at energies near and below the barrier. R. Freifelder, P. Braun-Munzinger, P. DeYoung, R. Schicker, S. Sen, and J. Stachel. *Phys. Rev. C* **35**, 2097 (1987).
<http://link.aps.org/doi/10.1103/PhysRevC.35.2097>
19. Mechanisms for light charged particle emission in the reactions 247 and 337 MeV $^{40}\text{Ar}+^{nat}\text{Ag}$. R. Lacey, N.N. Ajitanand, J.M. Alexander, D.M. de Castro Rizzo, G.F. Peaslee, L.C. Vaz, M. Kaplan, M. Kilder, G. LaRana, D.J. Moses, W.E. Parker, D. Logan, M.S. Zisman, P. DeYoung, and L. Kowalski. *Phys. Rev. C* **37**, 2540 (1988).
<http://link.aps.org/doi/10.1103/PhysRevC.37.2540>
20. Large-angle correlations between ^4He and $^{1,2,3}\text{H}$ or ^4He in the reactions 247 and 337 MeV $^{40}\text{Ar}+^{nat}\text{Ag}$: Unexpected properties of the nuclear stratosphere. R. Lacey, N.N. Ajitanand, J.M. Alexander, D.M. de Castro Rizzo, G.F. Peaslee, L.C. Vaz, M. Kaplan, M. Kilder, G. LaRana, D.J. Moses, W.E. Parker, D. Logan, M.S. Zisman, P. DeYoung,

- and L. Kowalski. *Phys. Rev. C* **37**, 2561 (1988).
<http://link.aps.org/doi/10.1103/PhysRevC.37.2561>
21. Neutron-emission Spectra and Superdeformation in Light Nuclei. J.J. Kolata, R.A. Kryger, P.A. DeYoung, and F.W. Prosser. *Phys. Rev. Lett* **61**, 1178 (1988).
<http://link.aps.org/doi/10.1103/PhysRevLett.61.1178>
 22. Emission Times in Low Energy Heavy Ion Reactions by Particle-Particle Correlations. P. DeYoung, M.S. Gordon, Xiu Qin Lu, R.L. McGrath, J.M. Alexander, D.M. de Castro Rizzo, and L.C. Vaz. *Phys. Rev. C* **39**, 128 (1989).
<http://link.aps.org/doi/10.1103/PhysRevC.39.128>
 23. Particle-Particle Correlations and Lifetimes of Composite Nuclei: New tests for the Evaporation Model and for Statistical Equilibrium. P.A. DeYoung, C.J. Gelderloos*, D. Kortering*, J. Sarafa*, K. Zienert*, M.S. Gordon, G.P. Gilfoyle, X. Lu, R.L. McGrath, D.M. de Castro Rizzo, J.M. Alexander, G. Auger, S. Kox, L.C. Vaz, C. Beck, D.J. Henderson, D.G. Kovar, and M. Vineyard. *Phys. Rev. C* **41**, R1885 (1990).
<http://link.aps.org/doi/10.1103/PhysRevC.41.R1885>
 24. A Monte Carlo Reaction Simulation for Small-Angle Correlation Between Light Charged Particles. R.L. McGrath, A. Elmaani, J.M. Alexander, P.A. DeYoung, T. Ethvignot, M.S. Gordon, and E. Renshaw. *Computer Physics Communications* **59**, 507 (1990).
[http://dx.doi.org/10.1016/0010-4655\(90\)90092-F](http://dx.doi.org/10.1016/0010-4655(90)90092-F),
 25. A Continuous Automatic Correction Algorithm for Instrumental Drifts. Paul A. DeYoung and James D. van Putten. *Nucl. Instr. and Meth.* **A292**, 681 (1990).
[http://dx.doi.org/10.1016/0168-9002\(90\)90187-B](http://dx.doi.org/10.1016/0168-9002(90)90187-B)
 26. Probing the Lifetime of Excited Composite Nuclei with Particle-Particle Correlations. P.A. DeYoung, J.M. Alexander, J.J. Kolata, D. Kortering*, R.A. Kryger, C.J. Gelderloos*, M.S. Gordon, R.L. McGrath, J. Sarafa*, and R. Sedlar*. *Proceedings of the Corinne 90 conference (Nantes, France), International Workshop on Particle Correlations and Interferometry in Nuclear Collisions*, edited by D. Ardouin, World Scientific (1990).
 27. Two Particle Correlations from Neutron-Light Charged Particle Coincidences. R.A. Kryger, J.J. Kolata, W. Chung, R.J. Tighe, J.J. Vega, P.A. DeYoung, C. Copi*, J. Sarafa*, D.G. Kovar, G.P. Gilfoyle, and S.K. Sigworth. *Phys. Rev. Lett* **65**, 2118 (1990).
<http://link.aps.org/doi/10.1103/PhysRevLett.65.2118>
 28. Charge Particle Evaporation from Hot Composite Nuclei: Evidence Over a Broad Z Range for Distortions from Cold Nuclear Profiles. W.E. Parker, M. Kaplan, D.J. Moses, G. La Rana, D. Logan, R. Lacey, J.M. Alexander, D.M. de Castro Rizzo, P. DeYoung, R.J. Welberry, J.T. Boger. *Phys. Rev. C* **44**, 774 (1991).
<http://link.aps.org/doi/10.1103/PhysRevC.44.774>

29. Heavy Residue Production in 215 MeV $^{16}\text{O}+^{27}\text{Al}$ Reactions. G.P. Gilfoyle, M.S. Gordon, R.L. McGrath, G. Auger, J.M. Alexander, D.G. Kovar, M.F. Vineyard, C. Beck, D.J. Henderson, P.A. DeYoung and D. Kortering*. Phys. Rev. C **46**, 265 (1992).
<http://link.aps.org/doi/10.1103/PhysRevC.46.265>
30. Particle-Particle Correlations: Independent Particle Emission versus Sequential Decay of Heavy Fragments. M.S. Gordon, R.L. McGrath, J.M. Alexander, P.A. DeYoung, Xiu qin Lu, D.M. de Castro Rizzo, and G.P. Gilfoyle. Phys. Rev. C **46**, R1 (1992).
<http://link.aps.org/doi/10.1103/PhysRevC.46.R1>
31. Neutron-Charged Particle Correlation in the 3.8 MeV per Nucleon $^{16}\text{O}+^{12}\text{C}$ and 13.4 MeV per Nucleon $^{16}\text{O}+^{27}\text{Al}$ Reactions. R.A. Kryger, J.J. Kolata, W. Chung, S. Dixit, R.J. Tighe, J.J. Vega, P.A. DeYoung, C. Copi*, J. Sarafa*, D.G. Kovar, G.P. Gilfoyle, and S.K. Sigworth. Phys. Rev. C **46**, 1887 (1992).
<http://link.aps.org/doi/10.1103/PhysRevC.46.1887>
32. Experimental Verification of the Heisenberg Uncertainty Principle - An Advanced Undergraduate Laboratory. P.A. DeYoung, P.L. Jolivette, and N. Rouze. Am. J. Phys. **61**, 560 (1993).
<http://dx.doi.org/10.1119/1.17209>
33. Light Charged Particle and Intermediate Fragment Emission in the Reaction 640 MeV $^{86}\text{Kr}+^{63}\text{Cu}$. J. Boger, J.M. Alexander, G. Auger, A. Elmaani, S. Kox, R. Lacey, A. Narayanan, M. Kaplan, D.J. Moses, M.A. McMahan, P.A. DeYoung, C.J. Gelderloos*, and G. Gilfoyle. Phys. Rev. C **49**, 1576 (1994).
<http://link.aps.org/doi/10.1103/PhysRevC.49.1576>
34. Intermediate Mass Fragments from Reactions 486, 550, 640, and 730 MeV $^{86}\text{Kr}+^{63}\text{Cu}$. J. Boger, J.M. Alexander, A. Elmaani, S. Kox, R. Lacey, A. Narayanan, M. Kaplan, D.J. Moses, M.A. McMahan, P.A. DeYoung, and C.J. Gelderloos*. Phys. Rev. C **49**, 1597 (1994).
<http://link.aps.org/doi/10.1103/PhysRevC.49.1597>
35. The STAR Experiment at the Relativistic Heavy Ion Collider, J.W. Harris and the STAR Collaboration. Nucl. Phys. **A566**, 277c (1994).
[http://dx.doi.org/10.1016/0375-9474\(94\)90633-5](http://dx.doi.org/10.1016/0375-9474(94)90633-5)
36. Neural Net Triggers for STAR, P.A. DeYoung and S. Slezak*, a working report for the STAR collaboration at RHIC. Posted at
http://rsgi01.rhic.bnl.gov/star/starlib/doc/www/trg/soft_1/level_1/neural_net/neural_net.html
37. Correlation Measurements of Light Charged Particles Emitted from $^{32}\text{S}+^{27}\text{Al}$ Reaction at Energies of 105 MeV and 215 MeV. P.A. DeYoung, N.N. Ajitanand, J.M. Alexander, V. Datar, C.J. Gelderloos*, G. Gilfoyle, M.S. Gordon, R.L. McGrath, G.F. Peaslee, and J. Sarafa*. Phys. Rev. C **52**, 3488 (1995).
<http://link.aps.org/doi/10.1103/PhysRevC.52.3488>

38. Small Angle Neutron-Neutron Correlation Functions for the $^{16}\text{O}+^{27}\text{Al}$ Reaction at 220 MeV. P.A. DeYoung, T. Butler*, C. Dykstra*, G. Gilfoyle, M. Nimchek, A. Snyder, J. Hinnefeld, M. Kaplan, J.J. Kolata, J. Kugi, P. Santi, W. Chung, and R. Kryger. *Nucl. Phys.* **A597**, 127 (1996).
[http://dx.doi.org/10.1016/0375-9474\(95\)00419-X](http://dx.doi.org/10.1016/0375-9474(95)00419-X)
39. Non-linear Coupled Oscillators and Fourier Transforms - An Advanced Undergraduate Laboratory. P.A. DeYoung, D. LaPointe*, J. Levy*, and W. Lorenz*. *Am. J. Phys.* **64**, 898 (1996).
<http://dx.doi.org/10.1119/1.18118>
40. Probing the Degrees of Freedom in Hot Composite Nuclei via Charged Particle Emission Studies. M. Kaplan, C. Brown, J. Downer, Z. Milosevich, E. Vardaci, J. Whitfield, C. Copi*, and P. DeYoung. *Advances in Nuclear Dynamics*, Edited by W. Bauer and A. Mignerey, Plenum Press New York, 113 (1996).
41. Classical tests for statistical evaporation at 680 MeV Ar+Ag, C.J. Gelderloos, J.M. Alexander, J. Boger, M.T. Magda, A. Narayanan, P. DeYoung, A. Elmaani, M.A. McMahan. *Phys. Rev. C* **54**, 3056 (1996).
<http://link.aps.org/doi/10.1103/PhysRevC.54.3056>
42. Sensitivity of Small-Angle Correlations of Light Charged Particles to Reaction Mechanisms in the $^{16}\text{O}+^{27}\text{Al}$ Reaction at 40 MeV/nucleon. P.A. DeYoung, C. Dykstra*, P. Gonthier, C. Mader, G.F. Peaslee, D. Peterson*, R. Sedlar*, S. Sundbeck*, N. Shaw*, G. Westfall, D. Craig, R. Lacey, T. Li, T. Reposeur, A. VanderMolen, J.S. Winfield, S. Yennello, and A. Nadasen. *Phys. Rev. C* **56**, 244 (1997).
<http://link.aps.org/doi/10.1103/PhysRevC.56.244>
43. Splintering Central Collisions: Systematics of Momentum and Energy Deposition for (17-115)A MeV ^{40}Ar . E. Colin, Rulin Sun, N.N. Ajitanand, John M. Alexander, M.A. Barton*, P.A. DeYoung, A. Elmaani, C.J. Gelderloos, E.E. Gualtieri, D. Guinet, S. Hannuschke, J. A. Jaasma*, L. Kowalski, Roy A. Lacey, J. Lauret, E. Norbeck, R. Pak, G.F. Peaslee, M. Stern, N.T.B. Stone, S.D. Sundbeck*, A.M. Vander Molen, G.D. Westfall, and J. Yee. *Phys. Rev. C* **57**, R1032 (1998).
<http://link.aps.org/doi/10.1103/PhysRevC.57.R1032>
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Mentored Student Papers and Presentations

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1. Diffraction Patterns of Light from Helical Objects: Measurement and Calculation. J.D. Levy*. *J. Undergrad. Res.* **16**, 55 (1998).
2. Testing the Large-area multi-Institutional Scintillator Array (LISA) Neutron Detector. T.B. Nagi*, K.M. Rethman*, K.A. Purtell*, A.J. Haagsma*, C. DeRoo*, M. Jacobson*, S. Kuhn*, A.R. Peters*, M. Ndong*, S.A. Stewart*, Z. Torstrick*, R. Anthony*, H. Chen*, A. Howe*, N.S. Badger*, M.D. Miller*, B.J. Foster*, L.C. Rice*, C. Vest*, A.B. Aulie*, A. Grovom*, L. Elliot*, and P. Kasavan*. CEU poster EA.00078. Division of Nuclear Physics Fall Meeting. Santa Fe, New Mexico (2010).
3. Construction of the Large-area multi-Institutional Scintillator Array (LISA) Neutron Detector. K.M. Rethman*, K.A. Purtell*, A.J. Haagsma*, C. DeRoo*, M. Jacobson*, S. Kuhn*, A.R. Peters*, T. Nagi*, M. Ndong*, S.A. Stewart*, Z. Torstrick*, R. Anthony*, H. Chen*, A. Howe*, N.S. Badger*, M.D. Miller*, B.J. Foster*, L.C. Rice*, C. Vest*, A.B. Aulie*, A. Grovom*, L. Elliot*, and P. Kasavan*. CEU poster EA.00093. Division of Nuclear Physics Fall Meeting. Santa Fe, New Mexico (2010).
4. PIXE Spectrometry for Sediment Characterization. K. DeBlasio* and D. Pesch*. CEU poster EA.00028. Division of Nuclear Physics Fall Meeting. Santa Fe, New Mexico (2010).

Conference Talks

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137. Distance Learning Physics. Paul A. DeYoung. GLCA Exploratory Conference, The Intersection of Liberal Education and Online Learning, Hope College, Holland, MI, February 28, 2014.
138. Determining the resonance strength of the ^{56}Ni *rp*-process waiting point through (d,n) with VANDLE and MoNA-LISA. W. Peters, R. Grzywacz, M. Madurga, S.V. Paulauskas, S. Taylor, J. Allen, J.A. Cizewski, B. Manning, M.E. Howard. J. Smith, M. Jones, T. Baumann, M. Thoennessen, D.W. Bardayan, S.D. Pain, R.C.C. Clement, J. Brown, B. Luther, S. Ilyushkin, P.D. O'Malley, R. Ikeyama*, R.L. Kozub, Z.J. Bergstrom, P.A. DeYoung, W. Rogers. Abstract K6.00008, Bull. Am. Phys. Soc. **59**, American Physical Society Spring Meeting, Savannah, Georgia, April (2014).
139. Search for unbound ^{15}Be states in the 3-neutron decay channel. A. N. Kuchera, A. Spyrou, J. K. Smith, T. Baumann, J. Brown, P. A. DeYoung, N. Frank, M. Jones, Z. Kohley, and M. Thoennessen. Abstract DE.00006, Bull. Am. Phys. Soc. **59**, 4th Joint Meeting of the APS Division of Nuclear Physics and the Physical Society of Japan, Waikoloa, Hawaii, Oct. (2014).

140. Determining the Energy Gap Between the sd-pf Neutron Shells in ^{25}O . Michael Jones, Nathan Frank, Paul DeYoung, Thomas Baumann, Zach Kohley, Jenna Smith, Artemis Spyrou, Krystin Stiefel, Anthony Kuchera, and Michael Thoennessen. Abstract DE.00002, Bull. Am. Phys. Soc. **59**, 4th Joint Meeting of the APS Division of Nuclear Physics and the Physical Society of Japan, Waikoloa, Hawaii, Oct. (2014).
141. The MoNA collaboration and undergraduate education. Paul A. DeYoung. 2014 DNP/LRP Town Meeting on Education and Innovation.
142. Applications of Ion Beam Analysis to Consumer Product Testing. Paul A DeYoung. 23rd International Conference on the Application of Accelerators in Research and Industry (CAARI 2014), San Antonio, Texas (2014).
143. Remote physics lab. Paul A. DeYoung. 2015 Teagle Hybrid Learning Conference and Workshop. Hope College, Holland MI, June 7-9, 2015.
144. Measurement of the cross section of $^{72}\text{Ge}(p,\gamma)^{73}\text{As}$ reaction. F. Naqvi, S. J. Quinn, A. Battaglia, M. Couder, P. A. DeYoung, A. C. Dombos, X. Fang, J. Görres, A. Kontos, Q. Li, S. Lyons, G. F. Peaslee, D. Robertson, A. Simon, . Smith, M. K. Smith, A. Spyrou, E. Stech, W. P. Tan, and M. Wiescher. Nuclear Physics and Astrophysics conference (2015)
145. Search for ^{15}Be in the $3n+^{12}\text{Be}$ channel. 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. The 21st International Few Body Conference on Few-Body Problems in Physics, Chicago, IL, May 18, 2015.
146. Search for 4n contributions in the reaction $^{14}\text{Be}(\text{CH}_2, X)^{10}\text{He}$. M. D. Jones and Z. Kohley, T. Baumann, G. Christian, P. A. DeYoung, N. Frank, R. A. Haring-Kaye, A. N. Kuchera, B. Luther, S. Mosby, J. Snyder, A. Spyrou, S. L. Stephenson, and M. Thoennessen. The 21st International Few Body Conference on Few-Body Problems in Physics, Chicago, IL, May 18, 2015.
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150. Total absorption spectroscopy of neutron-rich nuclei around the A=100 mass region. A. Dombos, A. Algora, T. Baumann, J. Brett*, B. Crider, T. Ginter, U. Hager, E.

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151. Reaction Mechanism Dependence on the Population and Decay of ^{10}He . H. Liu, T. Redpath, A. Kuchera, J. Brett, V. Chudoba, P.A. DeYoung, J. Finck, A. Hamann, J. Hinnefeld, M. Jones, E. Lindquist, B. Marks, M. Mazza, W. Rogers, A. Spyrou, S. Stephenson, K. Stiefel, N. Taylor, International Nuclear Physics Conference, September 11-16, Adelaide, Australia (2016).
 152. Determination of the Urca Cooling Strength of A=61 Material in Neutron Star Crusts. W-J. Ong, H. Schatz, A. Spyrou, A. Ahn, J. Browne, K. Childers, B. Crider, E. Deleeuw, P. DeYoung, A. Dornbos, A. Kontos, C. Langer, R. Lewis, S. N. Liddick, Z. Meisel, F. Montes, F. Naqvi, J. Pereira, C. J. Prokop, S. J. Quinn, D. Richman, and K. Schmidt. Nuclei in the Cosmos XIV, June 19-24, Toki Messe Niigata City, Japan (2016).
 153. Nuclear level density and gamma strength function in ^{64}Fe . M. K. Smith, A. Spyrou, T. Ahn, A. C. Dombos, S. N. Liddick, F. Montes, F. Naqvi, D. Richman, H. Schatz, J. Brown, K. Childers, B.P. Crider, C. J. Prokop, E. Deleeuw, P. A. Deyoung, C. Langer, R. Lewis, Z. Meisel, J. Pereira, S. J. Quinn, K. Schmidt, A. C. Larsen, M. Guttormsen, 2017 Fall Meeting of the APS Division of Nuclear Physics, Pittsburgh, PA (2017).
 154. Characterizing a Tape Station and β Detector For Radioactive Isotope Beam Experiments. A. Torode, M. Smith, F. Naqvi, E. Zganjar, P. Deyoung, A.Dombos, C. Harris, A. Spyrou, 2017 Fall Meeting of the APS Division of Nuclear Physics, Pittsburgh, PA (2017).
 155. The new Digital Data Acquisition System for MoNA-LISA. D. Chrisman and P. DeYoung, 2017 Fall Meeting of the APS Division of Nuclear Physics, Pittsburgh, PA (2017).
 156. Experimentally Determining β -Decay Intensities for $^{103,104}\text{Nb}$ to Improve R-process Calculations. J. Gombas*, P. A. DeYoung, A. Spyrou, A. C. Dornbos, S. Lyons, CEU Abstract EA.00164 Fall Meeting of the APS Division of Nuclear Physics, Pittsburgh, PA (2017).
 157. Neutron Radioactivity in ^{26}O and Lifetime Analysis of Neutron-Rich Isotopes. C. Persch*, P. A. DeYoung, N. Frank, P. Gueye, A. Kuchera, T. Redpath, and the MoNA Collaboration, CEU Abstract EA.00169 Fall Meeting of the APS Division of Nuclear Physics, Pittsburgh, PA (2017).
 158. First Observation of Three-Neutron Sequential Emission from ^{25}O . C. Sword*, J. Brett*, P. A. DeYoung, N. Frank, H. Karrick*, A. N. Kuchers*, and the MoNA Collaboration, CEU Abstract EA.00170 Fall Meeting of the APS Division of Nuclear Physics, Pittsburgh, PA (2017).
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160. Measurement of ^9He ground and excited states. D. Votaw, P.A. DeYoung, T. Baumann, A.N. Kuchera, C.F. Persch*, Tan Phan*, M.R. Thoennessen, and the MoNA Collaboration, Abstract CB.00004, Fall Meeting of the APS Division of Nuclear Physics, Waikoloa, HI (2018).
 161. Neutron Unbound States in the Island of Inversion. Dayah Chrisman, Thomas Baumann, Paul A Deyoung, Nathan Frank, Anthony N Kuchera, John McDonough, Robbie Seaton-Todd*, William vonSeeger*, the MoNA Collaboration, Abstract DD.00005, Fall Meeting of the APS Division of Nuclear Physics, Waikoloa, HI (2018).
 162. Search for a low-energy enhancement in the γ -decay strength of neutron-rich ^{64}Fe . Mallory Smith, Artemis Spyrou, Wei Jia Ong, Sunghoon Ahn, Alex C Dombos, Sean N. Liddick, Fernando Montes, Farheen Naqvi, Debra Richman, Hendrik Schatz, Justin E Browne, Katherine L Childers, Benjamin Patrick Crider, Christopher J Prokop, Eric Deleeuw, Paul A Deyoung, Christoph Langer, Rebecca Lewis, Zachary P Meisel, Jorge Pereira, Stephen Quinn, Konrad Schmidt, Ann-Cecilie Larsen, Magne Guttormsen, Abstract DP.00005, Fall Meeting of the APS Division of Nuclear Physics, Waikoloa, HI (2018).
 163. Nuclear Level Density and Gamma Strength Functions for i-process nuclei, $^{103,104}\text{Mo}$. Andrea L. Richard, Sean N. Liddick, Alex C. Dombos, Artemis Spyrou, Farheen Naqvi, Stephen J. Quinn, Alejandro Algora, Thomas Baumann, Jaclyn Brett*, Benjamin P. Crider, Paul A DeYoung, Thomas Ginter, Jason P. Gombas*, Elaine Kwan, Stephanie Lyons, Wei Jia Ong, Alicia Palmisano, Jorge Pereira, Christopher J. Prokop, Dustin P. Scriven, Anna Simon, Mallory K. Smith, C. S. Sumithrarachchi, Abstract DP.00007, Fall Meeting of the APS Division of Nuclear Physics, Waikoloa, HI (2018).
 164. Cross Section Measurements of $^{84}\text{Kr}(p,\gamma)^{85}\text{Rb}$. Alicia Palmisano, Artemis Spyrou, Sean N. Liddick, Stephanie M Lyons, Alex C Dombos, Mallory K Smith, Anna Simon, Orlando Gomez, Paul A Deyoung, Abstract LD.00003, Fall Meeting of the APS Division of Nuclear Physics, Waikoloa, HI (2018).
 165. The MoNA-LISA research program at NSCL and FRIB. Thomas Baumann, James Aaron Brown, Paul A DeYoung, Joseph Finck, Nathan Frank, Paul L Gueye, Jerry D Hinnefeld, Robert A Haring-Kaye, Anthony N Kuchera, Bryan A Luther, Warren F Rogers, Artemis Spyrou, Sharon L Stephenson, Michael R Thoennessen, Abstract LM.00004, Fall Meeting of the APS Division of Nuclear Physics, Waikoloa, HI (2018).
 166. The MoNA Collaboration Multi-Layered SI-BE Segmented Target: Impact On Neutron Rich Nuclei. Paul L Gueye, Thomas Baumann, Dayah Chrisman, Paul A Deyoung, Nathan Frank, Anthony N Kuchera, Thomas H Redpath, Michael R Thoennessen, William von Seeger*, LM.00005, Fall Meeting of the APS Division of Nuclear Physics, Waikoloa, HI (2018).

167. Constraining i-process Nucleosynthesis via the Neutron-Capture Cross sections of $^{102,103}\text{Mo}$. Andrea L. Richard, S. N. Liddick, A. C. Dombos, A. Spyrou, T. Baumann, K. Childers, T. Ginter, E. Kwan, R. Lewis, S. Lyons, F. Naqvi, W.-J. Ong, A. Palmisano, J. Pereira, C. Prokop, S. J. Quinn, M. K. Smith, C. S. Sumithrarachchi, A. Simon, P. A. DeYoung, J. Gombas, O. Clarkson, F. Herwig, B. P. Crider, and A. Algora. Bull. Am. Phys. Soc., SM.00008 Fall Meeting of the APS Division of Nuclear Physics, Crystal City, VA (2019).
168. Constraining neutron-capture reactions for the astrophysical i-process. Artemis Spyrou, Caley Harris, Mallory K Smith, Sean N Liddick, Katie Childers, Rebecca Lewis, Stephanie Lyons, Alicia Palmisano, Andrea L Richard, Debra Richman, Chandana Sumithrarachchi, Magne Guttormsen, Vetle Ingeberg, Ann-Cecilie Larsen, Alex Dombos, Rebecca Kelmar, Farheen Naqvi, Paul DeYoung, Panagiotis Gastis, Christina Burbage, Eva Kasanda, Dennis Muecher, Darren Bleuel, Nicholas D Scielzo, and Adriana Sweet. Bull. Am. Phys. Soc., SM.00007 Fall Meeting of the APS Division of Nuclear Physics, Crystal City, VA (2019).
169. Indirect Study of Neutron Capture for $^{63}\text{Fe}(n,\gamma)$. Mallory Smith, Artemis Spyrou, Wei Jia Ong, Sunghoon Ahn, Alex Dombos, Sean Liddick, Fernando Montes, Farheen Naqvi, Debra Richman, Hendrick Schatz, Justin Browne, Katie Childers, Ben Crider, Chris Prokop, Eric Deleeuw, Paul DeYoung, Christoph Langer, Becky Lewis, Zach Meisel, Jorge Pereira, Steve Quinn, Konrad Schmidt, Ann Cecilie Larsen, Magne Guttormsen, Bull. Am. Phys. Soc., SM.00009 Fall Meeting of the APS Division of Nuclear Physics, Crystal City, VA (2019).
170. Neutron Unbound States in the N=20 Island of Inversion. Robbie Seaton-Todd, Anthony Kuchera, Nathan Frank, John McDonaugh, Paul Deyoung, William Von Seeger, Thomas Baumann, Dayah Chrisman, Paul Gueye, and the MoNA Collaboration. CEU Poster HA.00019 Fall Meeting of the APS Division of Nuclear Physics, Crystal City, VA (2019).
171. Study of Neutron-rich Nuclides of $Z = 13, 12$. John McDonaugh, Nathan Frank, Robbie Seaton-Todd, Anthony Kuchera, Paul Gueye, Paul DeYoung, Hope College, and the MoNA Collaboration. CEU Poster HA.00058 Fall Meeting of the APS Division of Nuclear Physics, Crystal City, VA (2019).
172. Characterizing a Charged Particle Detector Telescope. Georgia Votta, Nathan Frank, Thomas Baumann, James Brown, Paul DeYoung, and the MoNA Collaboration. CEU Poster HA.00059 Fall Meeting of the APS Division of Nuclear Physics, Crystal City, VA (2019).
173. Charged Particle Detector Telescope for Studies of Neutron-rich Systems. Nathan Frank, Georgia Votta, Thomas Baumann, James Brown, Paul DeYoung, and the MoNA Collaboration. Bull. Am. Phys. Soc., SC.00004 Fall Meeting of the APS Division of Nuclear Physics, Crystal City, VA (2019).

174. A Search for the ^{12}Be Isomeric State. Wang, Xinyi, Gueye, Paul L., Baumann, Thomas, DeYoung, Paul A., Frank, Nathan H., Kuchera, Anthony N., Monteagudo, Belen, Redpath, Thomas H., Votaw, Georgia, Webb, Henry, Presentation FF.00005, 2021 Fall Meeting of the APS Division of Nuclear Physics, American Physical Society, Boston, MA, United States. (October 11, 2021).
175. Constraining the Astrophysical P Process: Cross Section Measurement of the $^{84}\text{Kr}(p, \gamma)^{85}\text{Rb}$ Reaction in Inverse Kinematics. Palmisano, Alicia R., Spyrou, Artemis, Liddick, Sean N., Richard, Andrea L., Smith, Mallory K., Lyons, Stephanie, Dombos, Alex C., DeYoung, Paul A., and Harris, Caley, Presentation JD.00002, 2021 Fall Meeting of the APS Division of Nuclear Physics, American Physical Society, Boston, MA, United States. (October 11, 2021).
176. Level Densities and Gamma-Ray Strengths Inferred from Ground and Isomeric States in ^{70}Cu . Richard, Andrea L., Liddick, Sean N., Spyrou, Artemis, Yandow, Isaac T., Ringle, Ryan J., Chester, Aaron, Childers, Katherine L., DeYoung, Paul A., Owens-Fryer, Jordan, Hamaker, Alec S., Harris, Caley, Lewis, Rebeca, Lund, Kasey R., Lyons, Stephanie, Palmisano, Alicia R., Puentes, Daniel J., Sandler, Rachel, Sumithrarachchi, Chandana S., Wiedeking, Mathis, and Xiao, Yongchi, Presentation KE.00004, 2021 Fall Meeting of the APS Division of Nuclear Physics, American Physical Society, Boston, MA, United States. (2021).
177. Performance of a Charged Particle Detector System to Study Unbound Systems at FRIB. Frank, Nathan H., Baumann, Thomas, DeYoung, Paul A., Gueye, Paul L., Kuchera, Anthony N., Monteagudo, Belen, Votaw, Georgia, Webb, Henry, Wang and the MoNA Collaboration, Presentation EJ.0005, 2021 Fall Meeting of the APS Division of Nuclear Physics, American Physical Society, Boston, MA, United States. (2021).