

Damon T. Spayde

Contact Information

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 Hendrix College
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Education

Ph.D. in Physics University of Maryland, College Park, MD, August 2001
 Dissertation: *Measurement of the Strange Magnetic Form Factor of the Proton Using Elastic Electron Scattering*
 Advisor: Elizabeth J. Beise

M.S. in Physics University of Maryland, College Park, MD, May 2000

B.A. in Physics with Honors, Phi Beta Kappa, Grinnell College, Grinnell, IA, May 1995

Experience

2004-Present Assistant Professor, Physics Department, Hendrix College, Hendrix, AR

2004-2007 Assistant Professor, Physics Department, Grinnell College, Grinnell, IA

2001-2004 Postdoctoral Research Associate, Nuclear Physics Laboratory, University of Illinois at Urbana-Champaign, Urbana, IL

1996-2001 Graduate Research Assistant, Department of Physics, University of Maryland, College Park, MD

Professional Memberships

1998-Present Member, American Physical Society

1995-Present Phi Beta Kappa

Honors

2001 Peter T. Demos Award for research at the MIT/Bates Linear Accelerator

Papers published (or accepted for publication) in refereed journals

- [1] D. S. Armstrong *et al.*, *Transverse Beam Spin Asymmetries in Forward-Angle Elastic Electron-Proton Scattering*, Phys. Rev. Lett. **99**, 092301 (2007).
- [2] D. S. Armstrong *et al.*, *Strange-quark contributions to parity-violating asymmetries in the forward G^0 electron-proton scattering experiment*, Phys. Rev. Lett. **95**, 092001 (2005).
- [3] E. J. Beise, M. L. Pitt, and D. T. Spayde, *The SAMPLE experiment and weak nucleon structure*, Prog. Part. Nucl. Phys **54**, 289 (2005).
- [4] D. T. Spayde *et al.*, *The strange quark contribution to the proton's magnetic moment*, Phys. Lett. B **583**, 79 (2004).
- [5] T. M. Ito *et al.*, *Parity-violating electron deuteron scattering and the proton's neutral weak axial vector form factor*, Phys. Rev. Lett. **92**, 102003 (2004).
- [6] S. P. Wells *et al.*, *Measurement of the vector analyzing power in elastic electron proton scattering as a probe of double photon exchange amplitudes*, Phys. Rev. C **63**, 064001 (2001).
- [7] R. Hasty *et al.*, *Strange magnetism and the anapole structure of the proton*, Science **290**, 2117 (2000).
- [8] D. T. Spayde *et al.*, *Parity violation in elastic electron-proton scattering and the proton's strange magnetic moment*, Phys. Rev. Lett **84**, 1106 (2000).
- [9] D. H. Barkhuff *et al.*, *An energy feedback system for the MIT/Bates linear accelerator*, Nucl. Inst. Meth. A **450**, 187 (2000).

Invited papers presented at scientific meetings

- [1] D. T. Spayde for the G^0 collaboration, *Parity violating elastic $\vec{e}-p$ scattering asymmetries from the G^0 experiment*, Fall Meeting of the APS Division of Nuclear Physics, Chicago, IL, October 2004.
- [2] D. T. Spayde for the SAMPLE collaboration, *Updated results from the SAMPLE experiment*, International Workshop on Parity Violation and Hadronic Structure Part II, Grenoble, FRANCE, June 2004.
- [3] D. T. Spayde for the SAMPLE collaboration, *Recent results from the SAMPLE experiment*, ISHEPP XVI, Dubna, RUSSIA, June 2002.
- [4] D. T. Spayde for the SAMPLE collaboration, *Recent results from the SAMPLE experiment*, International Workshop on Parity Violation and Hadronic Structure Part I, Mainz, GERMANY, June 2002.

Colloquia, seminars, and special lectures

- [1] *Protons: Stranger Than You Think*, seminar, Hendrix College, Conway, AR, 7 March 2007.
- [2] *Protons: Stranger Than You Think*, seminar, Rhodes College, Memphis, TN, 1 February 2007.
- [3] *Protons: Stranger Than You Think*, seminar, Macalester College, St. Paul, MN, 20 April 2006.

- [4] *Protons: Stranger Than You Think*, seminar, Emporia State University, Emporia, KS, 27 February 2006.
- [5] *Protons: Stranger Than You Think*, seminar, McMurry University, Abilene, TX, 10 February 2006.
- [6] *Protons: Stranger Than You Think*, seminar, Mercyhurst College, Erie, PA, 27 January 2006.
- [7] *Protons: Stranger Than You Think*, seminar, LaGrange College, LaGrange, GA, 8 December 2005.
- [8] *Protons: Stranger Than You Think*, seminar, Grinnell College, Grinnell, IA, 28 November 2005.
- [9] *The G^0 experiment: looking for strangeness in nucleons*, seminar, Grinnell College, Grinnell, IA, 16 November 2004.
- [10] *The G^0 experiment: looking for strangeness in nucleons*, seminar, Grinnell College, Grinnell, IA, April 2004.
- [11] *The G^0 engineering runs*, seminar, Thomas Jefferson National Accelerator Facility, Newport News, VA, January 2004.
- [12] *Recent results from the SAMPLE experiment*, seminar, University of Illinois at Urbana-Champaign, Urbana, IL 2001.
- [13] *Recent results from the SAMPLE experiment*, seminar, College of William and Mary, Williamsburg, VA, 2001.

Contributed papers presented at scientific meetings

- [1] D. T. Spayde for the SAMPLE collaboration, *Recent results from the SAMPLE experiment*, Bull. Am. Phys. Soc. **44**, 33 (1999).

Papers published in their entirety in proceedings of scientific meetings and conferences

- [1] D. T. Spayde for the SAMPLE collaboration, *Updated results from the SAMPLE experiment*, Eur. Phys. J. A **24**, 51 (2005).
- [2] D. T. Spayde for the SAMPLE collaboration, *Recent results from the SAMPLE experiment*, To be published in the proceedings of the 2002 International Workshop on Parity Violation and Hadronic Structure Part I.

Courses Taught

Fall 2007	PHYS 210L General Physics I Lab, Hendrix College
Spring 2007	PHY 131 General Physics I (Discovery-Based Format), Grinnell College PHY 314 Thermodynamics and Statistical Physics, Grinnell College
Fall 2006	PHY 131L General Physics I lab, Grinnell College PHY 132 General Physics II (Discovery-Based Format) PHY 310 Computational Physics

Spring 2006	PHY 132L General Physics II Lab, Grinnell College PHY 314 Thermodynamics and Statistical Physics, Grinnell College Family Leave (one course reduction), Grinnell College
Fall 2005	PHY 131L General Physics I Lab, Grinnell College PHY 335 Electromagnetic Theory, Grinnell College Family Leave (one course reduction), Grinnell College
Spring 2005	PHY 132 General Physics II, Grinnell College (Lecture Format) PHY 132L General Physics II Lab, Grinnell College PHY 314 Thermodynamics and Statistical Physics, Grinnell College
Fall 2004	PHY 131 General Physics I, Grinnell College (Lecture Format) PHY 131L General Physics I Lab, Grinnell College PHY 335 Electromagnetic Theory, Grinnell College

Undergraduate Research Supervised

Summer 2005	G^0 : Measuring Strange Quark Form Factors of the Proton, Kathryne Sparks, Grinnell College.
Summer 2004	Simulation for the Møller Polarimeter in Hall C for the G^0 Experiment at Backward Angle, Bérénice Loupias, Thomas Jefferson National Accelerator Facility.

Professional Service

Spring 2007	Performed a review of several chapters on thermodynamics and statistical physics for a new calculus-based introductory physics textbook.
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College Service

Fall 2005	Participated in Grinnell College Medallion Ceremony for incoming first year students.
Summer 2005	Helped interview candidates for position of Director of Alumni and Community Relations, Grinnell College.

Proposals Submitted and Awarded

Fall 2007	Hendrix College Travel Grant to attend 2008 April Meeting of APS in St. Louis, MO: \$900.
Spring 2007	Midstates Consortium for Math and Science Speaker Series Grant to bring Tonnis ter Veldhuis of Macalester College to Grinnell College to give a seminar entitled "Beyond the Standard Model" on 3 April 2007: \$470.
Fall 2006	Grinnell College Travel Grant to attend 2007 April Meeting of APS in Jacksonville, FL: \$1760.
Fall 2005	Grinnell College Travel Grant to attend 2006 April Meeting of APS in Dallas, TX: \$1865.

Spring 2005 Grinnell College Internal Grant to support Kathryne Spark's summer research:
\$4000.

Fall 2004 Grinnell College Travel Grant to present invited talk at 2004 APS DNP Meeting
in Chicago, IL: \$1070.