

CURRICULUM VITAE - WARREN F. ROGERS

Westmont College
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EDUCATION

- 1986** Ph.D. Physics, University of Rochester, Rochester NY
- 1983** M.A. Physics, University of Rochester, Rochester NY
- 1981** B.S. Physics, Harvey Mudd College, Claremont CA

EMPLOYMENT

- 2007–** Interim Academic Dean, Westmont College, Santa Barbara, CA
- 2002–** Professor of Physics, Westmont College
- 1996–02** Associate Professor of Physics, Westmont College
- 1994–96** Assistant Professor of Physics, Westmont College
- 1988–94** Assistant Professor of Physics, State University of New York, Geneseo NY
- 1991, 92** Visiting Assistant Professor, (summer), University of Rochester, Rochester NY
- 1989, 90** Visiting Research Scientist, (summer), Nuclear Physics Laboratory (NPL), University of Washington, Seattle WA
- 1986-88** Post-Doctoral Research Associate, NPL, Univ. Washington
- 1982–86** Research Assistant, Nuclear Structure Research Laboratory (NSRL), Univ. Rochester
- 1981–82** Teaching Assistant, Univ. Rochester
- 1980** Research Assistant, (summer), Sacramento Peak Observatory, Sunspot NM

HONORS, AWARDS, GRANTS

- 2006–** Fellow, American Physical Society
- 2005–** Project Director, NSF Research at Undergraduate Institutions (RUI) grant PHY-0502010
- 2002–03** Project Director, NSF Major Research Instrumentation (MRI) grant PHY-0132641
- 2000–04** Project Director, NSF RUI grant PHY-0072915
- 1998–** NSF and DOE grant funding for the Conference Experience for Undergraduates (CEU) at the fall Division of Nuclear Physics (DNP) meetings of the American Physical Society (APS)
- 1999** Faculty Research Award, Westmont College
- 1997–00** Project Director, NSF RUI grant PHY-9722692
- 1993–96** Project Director, NSF RUI grant PHY-9496322
- 1992** NSF Research Opportunity Award (ROA), in conjunction with the Nuclear Structure Research Laboratory (NSRL), University of Rochester
- 1991** NSF ROA grant, NSRL, Univ. of Rochester

SERVICE

- 2007–2008** Executive Director, MoNA Collaboration
- 2007–** Programming Committee, Division of Nuclear Physics, American Physical Society
- 2003–06** Committee on Education, American Physical Society
- 2003–04** Education Subcommittee, Nuclear Science Advisory Committee
- 2000** Proposal Review Committee for Nuclear Physics, National Science Foundation
- 1999–** Education Committee, Division of Nuclear Physics (APS)
- 1998–** Director, Conference Experience for Undergraduates (Nuclear Physics)
- 1994** Executive Board Member, NY Section AAPT
- 1990–** American Association of Physics Teachers (AAPT)
- 1983–** American Physical Society (APS)
- 1983–** Division of Nuclear Physics (DNP), APS

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PUBLICATIONS

- 1) Cloudcroft Occultation Summary. I. December 1978 - March 1980, Richard R. Radick, John L. Africano, Warren F. Rogers, Timothy J. Schneeberger, and Edmund T. Tyson, *Astronomical Journal* **87** 885 (1982)
- 2) The Photometric Variability of Solar-Type Stars. II. Stars Selected from Wilson's Chromospheric Activity Survey, Richard R. Radick, M.S. Wilkerson, S.P. Worden, John L. Africano, A. Klimke, Steven Ruden, Warren Rogers, Taft E. Armandroff, and M.S. Giampapa, *Publications of the Astronomical Society of the Pacific* **95** 300 (1983)
- 3) Transport Efficiency of Free Atoms for Laser Spectroscopy Using a Cryogenic Helium Jet, A.G. Martin, S.B. Dutta, W.F. Rogers, and D.L. Clark, *Nuclear Instruments and Methods A* **247** 520 (1986)
- 4) Measurement of the Isotope Shift of ^{82}Sr , A.G. Martin, S.B. Dutta, W.F. Rogers, and D.L. Clark, *Physical Review C* **34** 1120 (1986)
- 5) Measurement of the Magnetic Moment of ^{33}Cl Using On-Line β -Nuclear Magnetic Resonance, W.F. Rogers, D.L. Clark, S.B. Dutta, and A.J. Martin, *Physical Letters B* **177** 293 (1986)
- 6) β -NMR Magnetic Moment Measurement Using On-Line Mass Separation and Tilted Foil Polarization, Warren F. Rogers, David L. Clark, Sanghamitra B. Dutta, Alexander G. Martin, *Nuclear Instruments and Methods A* **253** 256 (1987)
- 7) Laser Spectroscopy of Radioactive Atoms Using the Photon-Burst Technique, A.G. Martin, S.B. Dutta, W.F. Rogers, D.L. Clark, *Journal of the Optical Society of America* **4** 405 (1987)
- 8) New Constraints on Composition-Dependent Interactions Weaker Than Gravity, E.G. Adelberger, C.W. Stubbs, W.F. Rogers, F.J. Raab, B.R. Heckel, J.H. Gundlach, H.E. Swanson, R. Watanabe, *Physical Review Letters* **59** 849 (1987) - 1790(E)
- 9) Limits on Composition-Dependent Interactions Using a Laboratory Source: Is There a "Fifth Force" Coupled to Isospin?, C.W. Stubbs, E.G. Adelberger, B.R. Heckel, W.F. Rogers, H.E. Swanson, R. Watanabe, J.H. Gundlach, F.J. Raab, *Physical Review Letters* **62** 609 (1989)
- 10) Experimental Bounds on Interactions Mediated by Ultra-Low Mass Bosons, B.R. Heckel, E.G. Adelberger, C.W. Stubbs, W.F. Rogers, Y. Su, J.E. Swanson, G. Smith, *Physical Review Letters* **63** 2705 (1989)
- 11) Testing the Equivalence Principle in the Field of the Earth: Particle Physics at Masses Below $1 \mu\text{eV}$?, E.G. Adelberger, C.W. Stubbs, B.R. Heckel, W.F. Rogers, Y. Su, H.E. Swanson, G. Smith, R. Watanabe, J.H. Gundlach, *Physical Review D* **42** 3267 (1990)
- 12) Optical Isotope Shift and Hyperfine Structure Measurements of $^{152,154-158,160}\text{Gd}$, S.B. Dutta, A.G. Martin, W.F. Rogers, D.L. Clark, *Physical Review C* **42** 1191 (1990)
- 13) Searches for New Macroscopic Forces, E.G. Adelberger, B.R. Heckel, W.F. Rogers, C.W. Stubbs, *Annual Review of Nuclear and Particle Science* **41** 269 (1991)
- 14) Tilted Foil Polarization and Magnetic Moments of Mirror Nuclei, N. Benczer-Koller, T. Vass, A.W. Mountford, G. Kumbartzki, D.C. Zheng, L. Zamick, M. Hass, C. Broude, M. Satteson, W. Rogers, *Proceedings of the 4th International Spring Seminar on Nuclear Physics*, Amalfi, May 18-22 (1992)
- 15) Quadrupole and Magnetic moment measurements on spin-aligned projectile fragments, G. Neyens, N. Coulier, S. Teughels, S. Ternier, K. Vyvey, R. Coussement, D. L. Balabanski, J. M. Casandjian, M. Chartier, M.D. Cortina-Gil, M. Lewitowicz, W. Mittig, A. N. Ostrowski, P. Roussel-Chomaz, N. Alamanos, A. Lepine-Szily, and W. Rogers, *Heavy Ion Physics* **7** 101 (1998)
- 16) The quadrupole moment of ^{18}N , measured with the Level Mixing Resonance (LMR) method, N. Coulier, G. Neyens, S. Teughels, G. Georgiev, S. Ternier, K. Vyvey, R. Coussement, D.L. Balabanski, M.D. Cortina-Gil, M. Lewitowicz, W. Mittig, F. de Oliveira Santos, P. Roussel-Chomaz, W.F. Rogers, and A. Lépine-Szily, *Il Nuovo Cimento* **A111** 727 (1998)

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- 17) The Magnetic and Quadrupole Moment of Oriented Nuclei Measured With β -LMR-NMR, S. Teughels, G. Neyens, N. Coulier, G. Georgiev, S. Ternier, K. Vyvey, D.L. Balabanski, R. Coussement, W.F. Rogers, M.D. Cortina-Gil, F. de Oliveira Santos, M. Lewitowicz, W. Mittig, P. Roussel-Chomaz, A. Lepine Szily, *Proceedings of the ENAM (Exotic Nuclear and Atomic Masses) Conference*, 58 (1998)
- 18) Application of Nuclear Magnetic Resonance, Level Mixing Resonance and Their Combination for Measurement of Nuclear Magnetic and Quadrupole Moments, G. Georgiev, G. Neyens, N. Coulier, S. Teughels, S. Ternier, K. Vyvey, D.L. Balabanski, R. Coussement, W.F. Rogers, D. Cortina-Gil, F. de Oliveira, M. Lewitowicz, W. Mittig, P. Roussel-Chomaz, A. Lepine-Szily, P.F. Mantica, *Balkan Physics Letters, Special Issue*, p. 250-3 (1998)
- 19) Magnetic Moment of the 1^- Ground State in ^{18}N Measured by a New β -LMR-NMR Technique, G. Neyens, N. Coulier, S. Teughels, G. Georgiev, B.A. Brown, W.F. Rogers, D.L. Balabanski, R. Coussement, A. Lepine-Szily, M. Lewitowicz, W. Mittig, F. de Oliveira Santos, P. Roussel-Chomaz, S. Ternier, K. Vyvey, D. Cortina-Gil, *Physical Review Letters* **82** 497 (1999)
- 20) New β -Level Mixing Resonance and Nuclear Magnetic Resonance Method for Measuring Magnetic Dipole and Electric Quadrupole Moments of Short-Lived Nuclei, N. Coulier, G. Neyens, S. Teughels, D.L. Balabanski, R. Coussement, G. Georgiev, S. Ternier, K. Vyvey, and W.F. Rogers, *Physical Review C* **59** 1935 (1999)
- 21) Ground-State Magnetic Moment of the T=1 Nucleus ^{32}Cl Using On-Line β -NMR Spectroscopy, W.F. Rogers, G. Georgiev, G. Neyens, D. Borremans, N. Coulier, R. Coussement, A. Davies, J. Mitchell, S. Teughels, B.A. Brown, P.F. Mantica, *Physical Review C* **62** 044312 (2000)
- 22) Evidence for $2f_{7/2}$ neutron strength in the low energy structure of $^{144,146,148,150}\text{Nd}$ isotopes, J. Holden, N. Benczer-Koller, G. Jakob, G. Kumbartzki, T.J. Mertzimekis, K.-H. Speidel, A. Macchiavelli, M. McMahan, L. Phair, P. Maier-Komor, A.E. Stuchbery, W.F. Rogers, A.D. Davies, *Physics Letters B* **493** 7 (2000)
- 23) Single Particle Degrees of Freedom in the Transition from Deformed to Spherical Nuclei, J. Holden, N. Benczer-Koller, G. Jakob, G. Kumbartzki, T.J. Mertzimekis, K.-H. Speidel, C.W. Beausang, R. Krucken, A. Macchiavelli, M. McMahan, L. Phair, A.E. Stuchbery, P. Maier-Komor, W. Rogers, A.D. Davies, *Physical Review C* **63** 024315/1-8 (2001)
- 24) Spin Polarization of ^{37}K Produced in a Single-Proton Pick-up Reaction at Intermediate Energies, D.E. Groh, P.F. Mantica, A.E. Stuchbery, A. Stolz, T.J. Mertzimekis, W.F. Rogers, A.D. Davies, S.N. Liddick, and B.E. Tomlin, *Physical Review Letters* **90** 202502 (2003)
- 25) MoNA – The Modular Neutron Array, B. Luther, T. Baumann, M. Thoennessen, J. Brown, P. DeYoung, J. Finck, J. Hinnefeld, R. Howes, K. Kemper, P. Pancella, G. Peaslee, W. Rogers and S. Tabor, *Nuclear Instruments and Methods in Physics Research A* **505** 33 (2003)
- 26) Construction of a modular large-area neutron detector for the NSCL, T. Baumann, J. Boike, J. Brown, M. Bullinger, J.P. Bychoswki, S. Clark, K. Daum, P.A. DeYoung, J.V. Evans, J. Finck, N. Frank, A. Grant, J. Hinnefeld, G.W. Hitt, R.H. Howes, B. Isselhardt, K.W. Kemper, J. Longacre, Y. Lu, B. Luther, S.T. Marley, D. McCollum, E. McDonald, U. Onwuemene, P.V. Pancella, G.F. Peaslee, W.A. Peters, M. Rajabali, J. Robertson, W.F. Rogers, S.L. Tabor, M. Thoennessen, E. Tryggestad, R.E. Turner, P.J. VanWylen, N. Walker. *Nuclear Instruments And Methods* **A543**, 517 (2005)
- 27) Undergraduate Research Opportunities: The Key to a Bright Future for Nuclear Science in the United States, W.F. Rogers, J. Cerny, *Nuclear Physics News (NuPECC)*, **15** 4 3 (2005)
- 28) Fabrication of a Modular Neutron Array: A Collaborative Approach to Undergraduate Research, R.H. Howes, T. Baumann, M. Thoennessen, J. Brown, P.A. DeYoung, J. Finck, J. Hinnefeld, K.W. Kemper, B. Luther, P.V. Pancella, G.F. Peaslee, W.F. Rogers, S. Tabor, *American Journal of Physics* **73** (2) 122 (2005)
- 29) Nuclear Magnetic Moment of the ^{57}Cu Ground State, K. Minamisono, P. F. Mantica, T. J. Mertzimekis, A. D. Davies, M. Hass, J. Pereira, J. S. Pinter, W. F. Rogers, J. B. Stoker, B. E. Tomlin, and R. R. Weerasiri, *Physical Review Letters* **96** 102501 (2006).

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- 30) Determination of the N = 16 Shell Closure at the Oxygen Drip Line, C.R. Hoffman, T. Baumann, D. Bazin, J. Brown, G. Christian, P.A. DeYoung, J.E. Finck, N. Frank, J. Hinnefeld, R. Howes, E. Mosby, S. Mosby, J. Reith, B. Rizzo, W.F. Rogers, G. Peaslee, W.A. Peters, A. Schiller, M.J. Scott, S.L. Tabor, M. Thoennessen, P.J. Voss, and T. Williams, submitted to *Physical Review Letters* (2007)
- 31) Big Physics at Small Places: The Mongol Horde Model of Undergraduate Research, P. J. Voss, J. E. Finck, R. H. Howes, J. Brown, T. Baumann, A. Schiller, M. Thoennessen, P. A. DeYoung, G. F. Peaslee, J. Hinnefeld, B. Luther, P.V. Pancella, and W. F. Rogers, accepted for publication in the *Journal of College Teaching & Learning* (February 2008).
- 32) Production of Nuclei in Neutron Unbound States via Primary Fragmentation of ^{48}Ca , G. Christian, W.A. Peters, D. Absalon, D. Albertson, T. Baumann, D. Bazin, E. Breitbach, J. Brown, P.L. Cole, D. Denby, P.A. DeYoung, J.E. Finck, H. Frank, A. Fritsch, C. Hall, A.M. Hayes, J. Hinnefeld, C.R. Hoffman, R. Howes, B. Luther, E. Mosby, S. Mosby, D. Padilla, P.V. Pancella, G. Peaslee, W.F. Rogers, A. Schiller, M.J. Strongman, M. Thoennessen, and L.O. Wagner. *Nucl. Phys. A* **801** 101 (2008).

PRESENTATIONS

- 1) Measurement of Magnetic Moments of Light β -Unstable Nuclei Using On-Line Nuclear Magnetic Resonance, W.F. Rogers, A.G. Martin, S.B. Dutta, D.L. Clark, General Meeting of the American Physical Society, Crystal City VA, *Bulletin of the American Physical Society* **30** 790 (1985)
- 2) Magnetic Moment of ^{33}Cl Measured Using On-Line β -Nuclear Magnetic Resonance (Beta-NMR), W.F. Rogers, A.G. Martin, S.B. Dutta, D.L. Clark, General Meeting of the American Physical Society, Washington DC, *Bulletin of the American Physical Society* **31** 771 (1986)
- 3) Measurements of Parity Non-Conservation (PNC) and Search for Time Reversal Non-Conservation (TNC) Using Reactor-Produced Cold Neutrons, Nuclear Physics Seminar, Department of Physics, University of Washington, Seattle WA (May 1987)
- 4) Forces Weaker Than Gravity, Nuclear Brown Bag Seminar, Department of Physics, University of Washington, Seattle WA (May 1988)
- 5) Search for a Fifth Force, invited talk, Spring Meeting of the New York State Section of the American Association of Physics Teachers, Geneseo NY (15 April 1989)
- 6) A Search for Intermediate-Range Composition-Dependent Interactions, Nuclear Physics Seminar, Department of Physics and Astronomy, University of Rochester, Rochester NY (14 September 1989)
- 7) A Search for Intermediate-Range Composition-Dependent Interactions ("Fifth Force"), Physics Colloquium, Department of Physics and Astronomy, SUNY Binghamton, Binghamton NY (4 December 1989)
- 8) A Search for Intermediate-Range Composition-Dependent Interactions ("Fifth Force"), Physics Colloquium, Department of Physics and Astronomy, SUNY Brockport, Brockport NY (5 October 1990)
- 9) Even Odd Nuclei Have Their Moments, Physics Colloquium, Department of Physics and Astronomy, SUNY Geneseo, Geneseo NY (2 May 1991)
- 10) Nuclear Magnetic Moment Measurements Using the β -NMR Technique, Physics Colloquium, Department of Physics and Astronomy, SUNY Brockport, Brockport NY (6 December 1991)
- 11) Searches for New Macroscopic Forces, invited talk, Spring Meeting of the New York State Section of the American Association of Physics Teachers, Brockport NY (11 April 1992)
- 12) What Makes Gravity So Attractive?, Physics Colloquium, Department of Physics and Astronomy, SUNY Geneseo, Geneseo NY (2 April 1992)
- 13) "LabTools Data Analysis Package for Use in Undergraduate Science Laboratory, Third Annual Northeast Regional Meeting of the American Association of Physics Teachers, Vassar College, Poughkeepsie NY (November 1992)

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- 14) Ground-State Nuclear Magnetic Moment Measurements using β -NMR Spectroscopy and Tilted Foil Polarization, W.F. Rogers, R. Schulitz, P. Troischt, D. Zajac, N. Benczer-Koller, T. Vass, A.W. Mountford, M. Hass, G. Goldring, C. Broude, M. Satteson, B. Zimmerman, C.N. Davids, BGO Group, Annual Meeting of the Division of Nuclear Physics, American Physical Society, Asilomar CA, *Bulletin of the American Physical Society* **30** 1844 (1993)
- 15) Search for a Composition-Dependent Finite-Range Force Using an Ultra Sensitive Torsion Balance, Natural Science Research Seminar, Westmont College, Santa Barbara CA (March 1995)
- 16) Measurement of Nuclear Ground State Magnetic Moments Using Radiation-Detected NMR and Tilted Foil Polarization, invited talk, Instituut voor Kern- en Stralingsfysica (Institute for Nuclear and Radiation Physics, IKS), University of Leuven, Belgium, 9 December 1996
- 17) Sub-Atomic Physics - Getting to the Heart of the Matter, Phi Kappa Phi Lecture, Westmont College, Santa Barbara CA (24 February 1997)
- 18) Simultaneous Application of β -Detected LMR and NMR Spectroscopy for Measurement of Nuclear Dipole and Quadrupole Moments, invited talk, National Superconducting Cyclotron Laboratory, Michigan State University, East Lansing MI (June 1997)
- 19) Experimental Requirements for Application of Combined β -LMR and β -NMR Spectroscopy for Measurement of Nuclear Moments, Workshop on Future Experiments and Detectors for Nuclear Structure and Astrophysics at the Upgraded NSCL, National Superconducting Cyclotron Laboratory, Michigan State University, East Lansing MI (August 1997)
- 20) Simultaneous Application of β -Detected LMR and NMR Spectroscopy for Measurement of Nuclear Dipole and Quadrupole Moments, W.F. Rogers, G. Neyens, N. Coulier, S. Teughels, K. Vyvey, S. Ternier, G. Lepine-Szily, Annual Meeting of the Division of Nuclear Physics, American Physics Society, Whistler BC, *Bulletin of the American Physical Society* **42 No. 7** 1642 (1997)
- 21) Simultaneous Application of β -Detected LMR and NMR Spectroscopy for Measurement of Nuclear Dipole and Quadrupole Moments, Physics Colloquium, Calvin College, Grand Rapids, MI (6 March 1998)
- 22) Simultaneous Application of β -Detected LMR and NMR Spectroscopy for Measurement of Nuclear Dipole and Quadrupole Moments, Nuclear Physics Forum, Lawrence Berkeley National Laboratory, 88" Cyclotron Lab (April 1998)
- 23) Measurement of the ^{32}Cl Ground State Magnetic Moment Using On-Line β -NMR Spectroscopy, Warren F. Rogers, Andrew Davies, Jonathan Mitchell, Georgi Georgiev, Nico Coulier, Gerda Neyens, Stephanie Teughels, Paul Mantica, Jason Pond, Annual Meeting of the Division of Nuclear Physics, American Physical Society, Santa Fe, NM, *Bulletin of the American Physical Society* **43 No. 6** 1561 (1998)
- 24) Excited-State Nuclear Magnetic Moments, Physics Colloquium, California State University at San Luis Obispo, (7 October 1999)
- 25) B(E2) Measurements for $^{144-146}\text{Nd}$ Excited States via Coulomb Excitation, W.F. Rogers et al., Annual Meeting of the Division of Nuclear Physics, American Physical Society, Williamsburg, VA, *Bulletin of the American Physical Society* **45 No. 5** 55 (2000)
- 26) Measurement of the ^{32}Cl Ground State Magnetic Moment Using On-Line β -NMR Spectroscopy, W.F. Rogers, A. Davies, J. Mitchell, G. Georgiev, G. Neyens, D. Borremans, N. Coulier, R. Coussement, S. Teughels, B.A. Brown and P.F. Mantica, Poster presentation, Nuclear Structure 2000, Michigan State University, East Lansing, MI August 15-19, 2000
- 27) Ground State Magnetic Moment Measurements in Isospin Multiplets, W.F. Rogers, Rare Isotope Accelerator (RIA)2000 Workshop, Research Triangle Park, NC, July 24-26, 2000
- 28) Overview of the Conference Experience for Undergraduates (CEU), W.F. Rogers, Joint Working Group on Education, Outreach and the Role of the Universities, Combined Nuclear Structure and Astrophysics Town Meeting, Oakland, CA November 10-12 (2000)

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- 29) Measurements of Ground State Nuclear Magnetic Moments Near $N=Z$, W.F. Rogers, Annual Meeting of the Division of Nuclear Physics, American Physical Society, East Lansing, MI, *Bulletin of the American Physical Society* **47 No. 6** 37 (2002)
- 30) Construction of a Modular Neutron Array (MoNA) - A Multi-College Collaboration, W.F. Rogers, Annual Meeting of the Division of Nuclear Physics, American Physical Society, East Lansing, MI, *Bulletin of the American Physical Society* **47 No. 6** 27 (2002)
- 31) Life Elsewhere in the Universe – A Scientific and Religious Exploration, W.F. Rogers, Huntington College Forester Lecture, Huntington, IN 2 December (2003)
- 32) A Report on the Conference Experience for Undergraduates, W.F. Rogers, Annual Meeting of the Division of Nuclear Physics, American Physical Society, Denver, CO, *Bulletin of the American Physical Society* **49 No.2** 152 (2004)
- 33) Life Elsewhere in the Universe – A Scientific Exploration, W.F. Rogers, Westmont Downtown Series Lecture, Santa Barbara, CA, 13 May (2004)
- 34) Westmont College Physics and Astronomy Program, W.F. Rogers, H.M. Sommermann, Santa Barbara Astronomical Unit, Invited Talk, Santa Barbara, CA, 2 September (2005)
- 35) Element Genesis, W.F. Rogers, Santa Barbara Astronomical Unit, Invited Talk, Santa Barbara, CA, 3 February (2006)
- 36) The Sky's the Limit – Astronomy at Westmont College, K.E. Kihlstrom, W.F. Rogers, H.M. Sommermann, Westmont Downtown Lecture Series, Santa Barbara, CA, 30 March (2006)
- 37) Cosmic Muon Detection using the NSCL Modular Neutron Array, W.F. Rogers, S. Mosby, E. Mosby, J. Gillette, M. Reese, Annual Meeting of the Division of Nuclear Physics, American Physical Society, Nashville, TN, *Bulletin of the American Physical Society* **51 No. 6** 103 (2006)