

## 11 Publications

### 11.1 Published papers:

“Event structure at RHIC from p-p to Au-Au,” T. A. Trainor and the STAR Collaborators,\* *Proceedings of 20th Winter Workshop on Nuclear Dynamics*, Trelawny Beach, Jamaica, March, 2004. *Acta Phys. Hung. A* **24**, 71 (2005).

“Analytic expressions for gravitational inner multipole moments of elementary solids and for the force between two rectangular solids,” E. G. Adelberger, N. A. Collins and C. D. Hoyle, *Class. Quant. Grav.* **23**, 125 (2006).

“A transactional analysis of interaction-free measurements,” J. G. Cramer, *Found. Phys. Lett.* **19**, 63, (2006), quant-ph/0508102.

“An electron transparent proton detector for neutron decay studies,” S. A. Hoedl, *J. Appl. Phys.* **99**, 084904 (2006).

“Autocorrelations from fluctuation scale dependence by inversion,” T. A. Trainor, R. J. Porter and D. J. Prindle, *J. Phys. G* **31**, 809 (2005).

“Experimental and theoretical challenges in the search for the quark gluon plasma: The STAR collaboration’s critical assessment of the evidence from RHIC collisions,” J. Adams and the STAR Collaborators,\* *Nucl. Phys. A* **757**, 102 (2005), nucl-ex/0501009.

“The  ${}^7\text{Be}(p,\gamma){}^8\text{B}$  astrophysical S-factor,” K. A. Snover, A. R. Junghans, E. C. Mohrmann, T. D. Steiger, E. G. Adelberger, J. M. Casandjian, H. E. Swanson, L. Buchmann, S. H. Park, A. Zyuzin and A. M. Laird, *Proceedings of the 8th Nuclei in the Cosmos Conference*, July 2004, Vancouver, BC, *Nucl. Phys. A* **758**, 685c (2005).

“Recent results from SNO and other solar neutrino experiments,” R. G. H. Robertson, Invited Talk, *Proc. 8th Internat. Workshop on Topics in Astroparticle and Underground Physics International Conference*, TAUP 03, University of Washington, Seattle, WA, September, 2003, *Nucl. Phys. Proc. Suppl.* **138**, 243 (2005).

“Phi meson production in Au+Au and p+p collisions at  $\sqrt{s_{NN}}=200$  GeV,” J. Adams and the STAR Collaborators,\* *Phys. Lett. B* **612**, 181 (2005), nucl-ex/0406003.

“Autocorrelations from the scale dependence of transverse-momentum fluctuations in Hijing-simulated Au-Au collisions at  $\sqrt{s_{NN}}=200$ -GeV,” Q. J. Liu, D. J. Prindle and T. A. Trainor, *Phys. Lett. B* **632**, 197 (2006).

“System size and centrality dependence of the balance function in A + A collisions at  $\sqrt{s_{NN}}=17.2$ -GeV,” C. Alt and the NA49 Collaborators, *Phys. Rev. C* **71**, 034903 (2005), hep-ex/0409031.

“Pion interferometry in Au+Au collisions at  $\sqrt{s_{NN}}=200$  GeV,” J. Adams and the STAR

Collaborators,\* Phys. Rev. C **71**, 044906 (2005), nucl-ex/0411036.

“K(892)\* resonance production in Au+Au and p+p collisions at  $\sqrt{s_{NN}} = 200$  GeV at STAR,” J. Adams and the STAR Collaborators,\* Phys. Rev. C **71**, 064902, nucl-ex/0412019.

“Event-wise mean- $p_T$  fluctuations in Au-Au collisions at  $\sqrt{s_{NN}} = 130$  GeV,” J. Adams and the STAR Collaborators,\* Phys. Rev. C **71**, 064906 (2005).

“Azimuthal anisotropy in Au+Au collisions at  $\sqrt{s_{NN}} = 200$  GeV,” J. Adams and the STAR Collaborators,\* Phys. Rev. C **72**, 014904 (2005), nucl-ex/0409033.

“Incident energy dependence of  $p_T$  correlations at RHIC,” J. Adams and the STAR Collaborators,\* Phys. Rev. C **72**, 044902 (2005), nucl-ex/0504031.

“Polarized neutron  $\beta$ -decay: proton asymmetry and recoil-order currents,” S. K. L. Sjue, Phys. Rev. C **72**, 045501 (2005).

“Electron energy spectra, fluxes, and day-night asymmetries of  $^8\text{B}$  solar neutrinos from measurements with NaCl dissolved in the heavy water detector at the Sudbury Neutrino Observatory,” B. Aharmim and the SNO Collaborators,\* Phys. Rev. C **72**, 055502 (2005), nucl-ex/0502021.

“Directed flow in Au+Au collisions at  $\sqrt{s_{NN}} = 62$  GeV, J. Adams and the STAR Collaborators,\* Phys. Rev. C **73**, 034903 (2006), nucl-ex/0510053.

“Upper limit of  $\text{D}^0$  production in central Pb+Pb collisions at 158-A-GeV,” C. Alt and the NA49 Collaborators,\* Phys. Rev. C **73**, 034910 (2006), nucl-ex/0507031.

“Multiplicity and pseudorapidity distributions of charged particles and photons at forward pseudorapidity in Au + Au collisions at  $\sqrt{s_{NN}} = 62.4$  GeV,” J. Adams and the STAR Collaborators,\* Phys. Rev. C **73**, 034906 (2006), nucl-ex/0511026.

“Measurement of the response of a Ga solar neutrino experiment to neutrinos from a  $^{37}\text{Ar}$  source,” J. N. Abdurashitov and the SNO Collaborators,\* Phys. Rev. C **73**, 045805 (2006), nucl-ex/0512041.

“A search for periodicities in the  $^8\text{B}$  solar neutrino flux measured by the Sudbury Neutrino Observatory,” B. Aharmim and the SNO Collaborators,\* Phys. Rev. D **72**, 052010 (2005), hep-ex/0507079.

“System-size dependence of strangeness production in nucleus-nucleus collisions at  $\sqrt{s_{NN}} = 17.3$ -GeV,” C. Alt and the NA49 Collaborators, Phys. Rev. Lett. **94**, 052301 (2005), nucl-ex/0406031.

“Quantum opacity, the RHIC Hanbury-Brown Twiss puzzle, and the chiral phase transition,” J. G. Cramer, G. A. Miller, J. M. S. Wu and J-H. Yoon, Phys. Rev. Lett. **94**, 102302 (2005), nucl-th/0411031.

“ $\Omega^-$  and  $\bar{\Omega}^+$  production in central Pb+Pb collisions at 40-AGeV and 158-AGeV,” C. Alt and the NA49 Collaborators,\* Phys. Rev. Lett. **94**, 192301 (2005), nucl-ex/0409004.

“Multiplicity and pseudorapidity distributions of photons in Au + Au Collisions at  $\sqrt{s_{NN}} = 62.4$  GeV,” J. Adams and the Star Collaborators,\* Phys. Rev. Lett. **95**, 062301 (2005), nucl-ex/0502008.

“Multi-strange baryon elliptic flow in Au+Au collisions at  $\sqrt{s_{NN}} = 200$  GeV,” J. Adams and the Star Collaborators,\* Phys. Rev. Lett. **95**, 122301 (2005), nucl-ex/0504022.

“Erratum: Quantum opacity, the RHIC Hanbury-Brown Twiss puzzle, and the chiral phase transition,” J. G. Cramer, G. A. Miller, J. M. S. Wu and J-H. Yoon, Phys. Rev. Lett. **95**, 139901 (2005).

“Hadronization geometry and charge-dependent number autocorrelations on axial momentum space in Au-Au collisions at  $\sqrt{s_{NN}} = 130$  GeV,” J. Adams and the STAR Collaborators,\* Phys. Rev. Lett. **634**, 347 (2006).

“Distributions of charged hadrons associated with high transverse momentum particles in pp and Au+Au Collisions at  $\sqrt{s_{NN}} = 200$  GeV,” J. Adams and the STAR Collaborators,\* Phys. Rev. Lett. **95**, 152301 (2005), nucl-ex/0501016.

“Solar neutrinos,” R. G. H. Robertson, *Proceedings of Erice International School of Nuclear Physics: 27th Course*, Neutrinos in Cosmology, Erice, Sicily, Italy, Sept. 2005. Prog. Part. Nucl. Phys. **57**, 90 (2006), nucl-ex/0602005.

“Present status of the SAGE  $^{37}\text{Ar}$  neutrino source experiment,” J. N. Abdurashitov and the SAGE Collaborators,\* *Proceedings of the 11th International Workshop on Neutrino Telescopes*, Venice, Italy, February 2005, Published in Venice 2005, Neutrino telescopes, 187 (2005).

“Conceptual design for a Deep Underground Science and Engineering Laboratory Cascades,” W. Haxton, J. Wilkerson, R. A. Robertson and R. J. Guardia, in *Rapid Excavation Tunneling Conference Proceedings 2005*, Editors: J. D. Hutton and W. D. Rogstad, Published by Society for Mining, Metallurgy, and Exploration (2005).

“Proceedings of MIT Workshop on Correlations and Fluctuations in Relativistic Nuclear Collisions,” G. Roland and T. A. Trainor, editors, Cambridge, MA, April 2005, J. Phys. Conf. Ser. **27**, (2005).

### Papers submitted or to be published 2006:

“The BNO-LNGS joint measurement of the solar neutrino capture rate in  $^{71}\text{Ga}$ ,” J. N. Abdurashitov and the SAGE Collaborators,\* accepted by Astropart. Phys., nucl-ex/0509031.

“A power-law description of collision centrality applied to Hijing-1.37-simulated Au - Au

collisions at  $\sqrt{s_{NN}} = 200\text{-GeV}$ ,” T. A. Trainor and D. J. Prindle, submitted to J. Phys. G, hep-ph/0411217.

“Identified hadron spectra at large transverse momentum in p+p and d+Au collisions at  $\sqrt{s_{NN}} = 200\text{ GeV}$ ,” J. Adams and the STAR Collaborators,\* submitted to Phys. Lett. B, nucl-ex/0601033.

“Forward neutral pion production in p+p and d+Au Collisions at  $\sqrt{s_{NN}} = 200\text{ GeV}$ ,” J. Adams and the STAR Collaborators,\* submitted to Phys. Rev. Lett., nucl-ex/0602011.

“Strangelet search at RHIC,” J. Adams and the STAR Collaborators,\* submitted to Phys. Rev. Lett., nucl-ex/0511047.

“Transverse-momentum  $p_T$  correlations on  $(\eta, \Phi)$  from mean- $p_T$  fluctuations in Au - Au collisions at  $\sqrt{s_{NN}} = 200\text{-GeV}$ ,” J. Adams and the STAR Collaborators,\* accepted by Phys. Lett. B, nucl-ex/0509030.

“A method to improve particle identification in TPCs and silicon detectors,” H. Bichel, Nucl. Instrum. Methods in Phys. Res. A, in press.

“Precise study of the final-state continuum in  $^8\text{Li}$  and  $^8\text{B}$  decays,” M. Bhattacharya, E. G. Adelberger and H. E. Swanson, Phys. Rev. C, in press.

“Mass of the lowest  $T = 2$  state in  $^{32}\text{S}$ : a test of the isobaric mass multiplet equation,” S. Triambak, A. García, E. G. Adelberger, G. J. P. Hodges, D. Melconian, H. E. Swanson, S. A. Hoedl, S. K. L. Sjue and A. L. Sallaska, Phys. Rev. C, in press.

“Arguments for a ‘U.S. Kamioka’: SNOLab and its implications for North American underground science planning,” W. C. Haxton, R. Holtz, P. Long and J. F. Wilkerson, to be submitted, nucl-ex/0604004.

## 11.2 Invited talks, abstracts and other conference presentations:

“The Eöt-Wash axion search,” S. A. Hoedl, MIT Cosmology Seminar, Massachusetts Institute of Technology, Cambridge, MA, April 2005.

“Transverse momentum correlations in relativistic nuclear collisions,” T. A. Trainor, D. J. Prindle and the STAR Collaborators, *Proceedings of MIT Workshop on Correlations and Fluctuations in Relativistic Nuclear Collisions*, G. Roland and T. A. Trainor, editors, Cambridge, MA, April 2005, J. Phys. Conf. Ser. **27**, 134 (2005).

“The equivalence of fluctuation scale dependence and autocorrelations,” D. J. Prindle and T. A. Trainor, *Proceedings of MIT Workshop on Correlations and Fluctuations in Relativistic Nuclear Collisions*, G. Roland and T. A. Trainor, editors, Cambridge, MA, April 2005, J. Phys. Conf. Ser. **27**, 118 (2005).

“Correlations from p p collisions at  $\sqrt{s} = 200\text{-GeV}$ ,” R. J. Porter, T. A. Trainor and STAR

Collaborators,\* *Proceedings of MIT Workshop on Correlations and Fluctuations in Relativistic Nuclear Collisions*, G. Roland and T. A. Trainor, editors, Cambridge, MA, April 2005, J. Phys. Conf. Ser. **27**, 98 (2005).

“The blind men and the quantum: testing quantum interpretations,” J. G. Cramer, Invited popular-level lecture given at *NASA/AIP Physics for the 3rd Millennium: II*, Huntsville, AL, April 2005.

“The Eöt-Wash axion search,” S. A. Hoedl, Northwest APS Section Meeting, University of Victoria, Victoria, BC, May 2005.

“The Majorana neutrinoless double-beta decay experiment,” J. F. Wilkerson, Invited Presentation to the *Neutrino Scientific Assessment Group HEPAP-NSAC Sub-committee*, Gaithersburg, MD, May 2005.

“Digging Neutrinos: Pursuing Science Deep Underground,” J. F. Wilkerson, Invited Colloquium, University of Washington Science Forum, Seattle, WA, June 2005.

“The Majorana Neutrinoless Double-Beta Decay Experiment,” J. F. Wilkerson, Invited Talk, INT Workshop on Underground Science, June 2005.

“Solving the RHIC HBT puzzle,” J. G. Cramer, Invited talk, presented at the *Workshop on Femtoscopy, RHIC/AGS Users Meeting*, Brookhaven National Laboratory, NY, June 2005.

“The Quantum handshake: A review of the transactional interpretation of quantum mechanics,” J. G. Cramer, invited 1-hour lecture presented at the *Time-Symmetry in Quantum Mechanics Conference*, Sydney, Australia, July 2005.

“The Eot-Wash axion search,” S. A. Hoedl, International School on Contemporary Physics, Ulaan Baator, Mongolia, August 2005.

“Low- $Q^2$  partons in p - p and Au - Au collisions,” T. A. Trainor and the STAR Collaborators,\* *35th International Symposium on Multiparticle Dynamics (ISMD 05)*, Kromeriz, Czech Republic, August 2005.

“Pion opacity, chiral symmetry restoration, and RHIC HBT,” J. G. Cramer, Invited talk, *WPCF 2005*, Kromeriz, Czech Republic, August 2005.

“Chiral symmetry restoration, pion opacity, and the RHIC HBT puzzle,” J. G. Cramer, Invited talk, presented at *ISMD 2005*, Kromeriz, Czech Republic, August 2005.

“The RHIC HBT puzzle, chiral symmetry restoration, and pion opacity,” J. G. Cramer, Contributed paper, selected for oral presentation at *Quark Matter 2005*, Budapest, Hungary, August 2005.

“Mass of the lowest  $T = 2$  state of  $^{32}\text{S}$  and the isospin multiplet mass equation,” S. Triambak, Talk at: RIA Summer School, Lawrence Berkeley National Laboratory, Berkeley, CA, August 2005.

“Mass of the lowest  $T = 2$  state of  $^{32}\text{S}$ ”, S. Triambak, A. García, E. G. Adelberger, G. J. P. Hodges, H. E. Swanson, S. A. Hoedl, S. K. L. Sjøe and A. L. Sallaska, 12<sup>th</sup> *International Symposium on Capture Gamma-Ray Spectroscopy and Related Topics*, Notre Dame, IN, September 2005, AIP Conference Proceedings, **819**, 607, (2006).

“Evidence for a chiral phase transition at RHIC,” J. G. Cramer, York University, Toronto, Physics Colloquium, September 2005.

“Neutrinoless double beta decay - current results, future implications,” J. F. Wilkerson, Invited Talk, *US - Japan Seminar on Double Beta Decay and Neutrino Mass Meeting*, Maui, HA, September 2005.

“Direct determination of neutrino mass with KATRIN,” K. Rielage, Second Joint Meeting of the APS/JPS, Maui, Hawaii, September 2005, Bull. Am. Phys. Soc. **50**, 22 (2005), Session IWF1.

“ $^7\text{Be} + \text{p}$  and  $^3\text{He} + ^4\text{He}$  fusion reactions and neutrino astrophysics,” K. A. Snover, Invited talk, Second Joint Meeting of the APS/JPS, Maui, Hawaii, September 2005, Bull. Am. Phys. Soc. **50**, 23 (2005), Session IWG3.

“Search for right-handed currents in the  $\beta^+$  decay of laser-cooled, polarized  $^{37}\text{K}$ ,” D. Melconian, Second Joint Meeting of the APS/JPS, Maui, Hawaii, September 2005, Bull. Am. Phys. Soc. **50**, 43 (2005), Session BB4.

“Mass of the lowest  $T = 2$  state of  $^{32}\text{S}$ ,” S. Triambak, A. García, E. G. Adelberger, G. J. P. Hodges, H. E. Swanson, S. A. Hoedl, S. K. L. Sjøe and A. L. Sallaska, Second Joint Meeting of the APS/JPS, Maui, Hawaii, September 2005, Bull. Am. Phys. Soc. **50**, 56 (2005), Session BH2.

“Polarized neutron  $\beta$ -decay: the Proton asymmetry and recoil-order currents,” S. Sjøe and A. García, Second Joint Meeting of the APS/JPS, Maui, Hawaii, September 2005, Bull. Am. Phys. Soc. **50**, 75 (2005), Session CH2.

“Solid state ultra-cold neutron detectors,” S. Hoedl, A. García, D. Melconian, A. Sallaska, S. Sjøe and UCN Collaborators, Second Joint Meeting of the APS/JPS, Maui, Hawaii, September 2005, Bull. Am. Phys. Soc. **50**, 102 (2005), Session DK5.

“Electron capture branch of  $^{100}\text{Tc}$  and the efficiency of a proposed Mo neutrino detector,” S. Sjøe, A. García, S. Hoedl, S. Triambak and E. Swanson, Second Joint Meeting of the APS/JPS, Maui, Hawaii, September 2005, Bull. Am. Phys. Soc. **50**, 115 (2005), Session EF9.

“Determination of energy loss of 3 MeV alpha particles in Ni foil and  $^3\text{He}$  gas using a  $\text{Mg}(\alpha, \gamma)$  resonance,” K. P. Michnicki, C. Bordeanu, J. D. Lowrey, K. A. Snover and D. W. Storm, Contributed talk, Second Joint Meeting of the APS/JPS, Maui, Hawaii, September 2005, Bull. Am. Phys. Soc. **50**, 140 (2006) Session FR78.

“Muon-induced production of  $^{16}\text{N}$ ,” N. Oblath, Second Joint Meeting of the APS/JPS,

Maui, Hawaii, September 2005, Bull. Am. Phys. Soc. **50**, 157 (2006) Session JG7.

“Submillimeter tests of the gravitational inverse square law,” E. G. Adelberger, Physics colloquium, University of California, Davis, CA, October 2005.

“The quantum handshake: An overview of the transactional interpretation of quantum mechanics,” J. G. Cramer, Invited lecture, presented at the *Colloque International ‘Charles Ehresmann : 100 ans’*, Amiens, France, October 2005.

“Fluctuations and Correlations,” T. A. Trainor, *1st International Workshop of the Virtual Institute ‘Physics of Strongly Interacting Matter at High Densities’ of the Helmholtz Society*, Monbach, Germany, October 2005.

“University of Washington lab report to SNEAP,” J. F. Amsbaugh, G. C. Harper, A. W. Myers, D. W. Storm, T. D. VanWechel and D. I. Will, *Symposium for Northeastern Accelerator Personnel*, Upton, NY, October 2005.

“Radioactive ion beams at the University of Washington FN tandem facility,” G. C. Harper, M. Bacrania, D. W. Storm and R. G. H. Robertson, *Symposium for Northeastern Accelerator Personnel*, Upton, NY, October 2005.

“The  $\beta$  decay of laser-cooled  $^{37,38}\text{mK}$  as a probe of new physics,” D. Melconian, Invited seminar, P-25 Division Los Alamos National Laboratory, Los Alamos, NM, October 2005.

“A torsion pendulum axion search,” S. A. Hoedl, Visions for Discovery Symposium, Young Scholars Competition Finalist, University of California, Berkeley, CA, October 2005.

“The Majorana neutrinoless double-beta decay experiment,” J. F. Wilkerson, Invited Talk, *PANIC 05 Satellite Meeting: Neutrino Planning Workshop*, October 2005.

“Tests of Newton’s inverse square law at the dark energy length scale,” E. G. Adelberger, Fermilab colloquium, Batavia, IL, November (2005).

“Sensitivity and discovery potential for neutrinoless double beta decay,” J. F. Wilkerson, Invited Talk, *Neutrino Nuclear Responses 2005*, Osaka, Japan, December 2005.

“Weighing neutrinos - Future experiments,” J. F. Wilkerson, Invited ICRR Seminar, Kamiokande Laboratory, Japan, December 2005.

“Test of Newton’s inverse-square law and Einstein’s Equivalence Principle,” E. G. Adelberger, Physics colloquium, University of Illinois, Urbana Champaign, IL, December 2005.

“Relativity violations in matter and gravity,” E. G. Adelberger, *AAAS symposium, Refining Einstein: the search for relativity violations*, St. Louis, MO, February 2006.

“Underground science facilities and the Majorana neutrinoless double-beta decay experiment,” J. F. Wilkerson, Invited talk, Homestake Lab Workshop, Lead, SD, February 2006.

“The Majorana neutrinoless double-beta decay experiment,” J. F. Wilkerson, presentation to the Homestake Scientific Program Committee, Lead, SD, February 2006.

“Nu opportunities - explorations beyond the ‘Standard Model’,” J. F. Wilkerson, Invited Experimental Particle Physics Seminar, Yale University, February 2006.

“High energy physics with a torsion pendulum,” S. A. Hoedl, University of California, UCLA High Energy Seminar, Los Angeles, CA, February 2006.

“The blind men and the quantum,” J. G. Cramer, Keynote Talk, *NIAC*, Atlanta, GA, March 2006.

“Testing gravity at small and large length scales,” E. G. Adelberger, *Confronting Gravity Symposium*, St. Thomas, Virgin Islands, March 2006.

“Tests of Newton’s inverse square law at the dark energy length scale,” E. G. Adelberger, Physics colloquium, Princeton University, NJ, April 2006.

“Tests of the gravitational inverse-square law at the dark energy length scale,” E. G. Adelberger, American Physical Society, Dallas, Texas, April 2006, *Bull. Am. Phys. Soc.* **51**, 71 (2006), Session E61.

“Second-forbidden beta decay of  $^8\text{B}$ ,” M. Bacrania, D. Storm and R. G.H. Robertson, American Physical Society, Dallas, Texas, April 2006, *Bull. Am. Phys. Soc.* **51**, 90 (2006), Session H91.

“New CP-violation and preferred-frame tests with polarized electrons,” C. Cramer, B. Heckel, T. Cook and E. G. Adelberger, American Physical Society, Dallas, Texas, April 2006, *Bull. Am. Phys. Soc.* **51**, 96 (2006), Session H14.

“An update on the Majorana-Gerda simulation package (MaGe),” M. Marino, American Physical Society, Dallas, Texas, April 2006, *Bull. Am. Phys. Soc.* **51**, 119 (2006), Session J95.

“A verification of the Majorana-Gerda simulation package (MaGe),” A. G. Schubert, American Physical Society, Dallas, Texas, April 2006, *Bull. Am. Phys. Soc.* **51**, 119 (2006), Session J96.

#### **Conference presentation by collaborators of CENPA personnel:**

“Precision measurements of the neutron’s beta asymmetry using ultra-cold neutrons,” M. F. Makela and the UCNA Collaboration, *Proceedings of the Particles and Nuclei International Conference 2005*, Santa Fe, NM, September 2005, to be published by the American Institute of Physics.

\*UW collaborators for the various CENPA research groups are listed below (April 1, 2005 - March 31, 2006).

NA49: J. G. Cramer, T. A. Trainor

SAGE: J. F. Wilkerson

STAR: H. Bichsel, J. G. Cramer, D. T. Kettler, R. J. Porter, D. J. Prindle and T. A. Trainor

SNO: G. A. Cox, J. A. Detwiler, P. J. Doe, C. A. Duba, S. R. McGee, N. S. Oblath, K. Rielage, R. G. H. Robertson, L. C. Stonehill, B. L. Wall and J. F. Wilkerson

### 11.3 Degrees Granted, Academic Year, 2005-2006

*Search for the second-forbidden beta decay of Boron-8*, Minesh Bacrania (2006).

*A New Equivalence Principle Test Using a Rotating Torsion Balance*, Ki-Young Choi (2006).

*A Short-Range Test of Newton's Gravitational Inverse-Square Law*, Daniel Kapner (2005).

*A Search for Matter Enhanced Neutrino Oscillations through Measurements of Day and Night Solar Neutrino Fluxes at the Sudbury Neutrino Observatory*, Kathryn Miknaitis (2005).

*Deployment and Background Characterization of the Sudbury Neutrino Observatory Neutral Current Detectors*, Laura Stonehill (2005).