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## **Education**

Ph.D. in Physics - 2005, North Carolina State University, Raleigh, NC, USA  
M.S. in Physics - 2002, North Carolina State University, Raleigh, NC, USA  
B.S. in Physics - 1994, National University of Mongolia, Ulaanbaatar, Mongolia

## **Professional Experience**

Post-Doctoral Research Fellow, North Carolina State University, Raleigh, NC  
May 2005 to present  
Participating guest, Lawrence Livermore National Laboratory, Livermore, CA  
January 2003 to present  
Graduate Research Assistant, North Carolina State University, Raleigh, NC  
January 2003 to May 2005  
Thesis Advisors - Prof. Gary E. Mitchell, Prof. Paul E. Garrett  
Graduate Teaching Assistant, North Carolina State University, Raleigh, NC  
August 2000 to January 2003  
Research Assistant, Triangle Universities Nuclear Laboratory, Durham, NC  
May 1999 to August 2000

## **Awards and Honors**

Recognition of Excellence, National Nuclear Security Administration, Department of Energy, Albuquerque, NM, March 2004  
Travel award to participate in the Second Rare Isotope Accelerator Summer School, NSCL, East Lansing, Michigan, 2003  
Travel award to participate in the 6-th LANSCE User Group meeting, LANL, Los Alamos, New Mexico, 2003

## **Committee**

Local Organizing Committee, International School on Contemporary Physics-IV, Ulaanbaatar, Mongolia, August 10 - 17, 2007.  
International Programme Committee, International School on Contemporary Physics-III, Ulaanbaatar, Mongolia, August 8 - 15, 2005.

## Publications

1. *Effect of pre-equilibrium spin distribution on  $^{48}\text{Ti}$  cross sections*, D. Dashdorj, T. Kawano, P. E. Garrett, J. A. Becker, U. Agvaanluvsan, L. A. Bernstein, M. B. Chadwick, M. Devlin, N. Fotiades, G. E. Mitchell, R. O. Nelson, and W. Younes, *Phys. Rev. C* **75**, 054612 (2007).
2.  *$\gamma$ -ray production cross sections in multiple channels for neutron induced reaction on  $^{48}\text{Ti}$  for  $E_n = 1$  to 200 MeV*, D. Dashdorj, G. E. Mitchell, P. E. Garrett, U. Agvaanluvsan, J. A. Becker, L. A. Bernstein, W. Younes, M. B. Chadwick, M. Devlin, N. Fotiades, T. Kawano, R. O. Nelson, *Nuclear Science and Engineering* **157**, 65-77, (2007).
3. *Neutron induced inelastic cross sections of  $^{150}\text{Sm}$  for  $E_n = 1$  to 35 MeV*, D. Dashdorj, G. E. Mitchell, T. Kawano, J. A. Becker, U. Agvaanluvsan, M. B. Chadwick, J. R. Cooper, M. Devlin, N. Fotiades, P. E. Garrett, R. O. Nelson, C. Y. Wu, and W. Younes, *Nucl. Instr. and Meth. in Phys. Res. B261*, 948-952, (2007).
4. *Pulsed and monoenergetic beams for neutron cross section measurements using activation and scattering techniques at Triangle Universities Nuclear Laboratory*, A. Hutchenson, et. al., *Nucl. Instr. and Meth. in Phys. Res. B261*, 369-372, (2007).
5. *The TRIUMF nuclear structure program and TIGRESS*, P. E. Garrett, et. al., *Nucl. Instr. and Meth. in Phys. Res. B261*, 1084-1088, (2007).
6. *High-spin lifetime measurements in the  $N = Z$  nucleus  $^{72}\text{Kr}$* , C. Andreoiu, et. al., *Phys. Rev. C* **75**, 041301(R), (2007).
7. *Identification of the  $g_{9/2}$  proton and neutron band crossing in the  $N = Z$  nucleus  $^{76}\text{Sr}$* , P. J. Davies, et. al., *Phys. Rev. C* **75**, 011302(R), (2007).
8. *Nuclear structure research at TRIUMF*, P. E. Garrett, et. al., *Acta Physica Polonica, B.* **38**, 1169-1178, (2007).
9. *TRIUMF-ISAC Gamma-Ray Escape-Suppressed spectrometer (TIGRESS): a versatile tool for radioactive beam physics*, G. C. Ball, et. al., *Nuclear Physics B* **787**, 118C-125C, (2007).
10. *Gamma-ray cross section standards in the MeV energy range and  $^{56}\text{Fe}$  inelastic scattering*, R. O. Nelson, M. Devlin, N. Fotiades, J. A. Becker, P. E. Garrett, W. Younes, D. Dashdorj, T. Ethvignot, and T. Granier, *Proceedings of Capture Gamma-Ray Spectroscopy and Related Topics: 12th International Symposium*, Edited by A. Woehr and A. Aprahamian, 323-327, (2006).
11. *Lifetime measurements in  $N = Z$   $^{72}\text{Kr}$* , C. Andreoiu, et. al., *Phys. Scr.* **T125**, 127-129, (2006).

12. *Spin distribution in neutron induced pre-equilibrium reactions*, D. Dashdorj, T. Kawano, M. Chadwick, M. Devlin, N. Fotiades, R. O. Nelson, G. E. Mitchell, P. E. Garrett, U. Agvaanluvsan, J. A. Becker, L. A. Bernstein, R. Macri, and W. Younes, Proceedings of ISCP-III, Edited by G. Khuukhenkhuu and J. Vanchinkhuu, 22-29 (2005).
13. *Evidence for nontermination of rotational bands in  $^{74}\text{Kr}$* , J. J. Valiente-Dobon, et. al., Phys. Rev. Letters, **95** 232501 (2005).
14. *Spin distribution in preequilibrium reactions for  $^{48}\text{Ti} + n$* , D. Dashdorj, Ph. D. thesis, North Carolina State University (2005).
15.  *$^{48}\text{Ti}(n, xnpx\alpha\gamma)$  reaction cross sections using spallation neutrons for  $E_n = 1 - 20$  MeV*, D. Dashdorj, G. E. Mitchell, P. E. Garrett, U. Agvaanluvsan, J. A. Becker, L. A. Bernstein, J. R. Cooper, R. D. Hoffman, R. Macri, and W. Younes, LLNL Technical Report, UCRL-TR-209474 (2005).
16. *High-Spin rotational structures in  $^{76}\text{Kr}$* , J. J. Valiente-Dobon, et al., Phys. Rev. C **71**, 034311 (2005).
17.  *$^{48}\text{Ti}(n, xnypz\alpha\gamma)$  reactions for neutron energies up to 250 MeV*, D. Dashdorj, P. E. Garrett, J. A. Becker, L. A. Bernstein, J. R. Cooper, M. Devlin, N. Fotiades, G. E. Mitchell, R. O. Nelson, W. Younes, AIP Conf. Proc. **769**, 1035 (2005).
18. *Improved nuclear level densities via identification of spurious levels*, U. Agvaanluvsan, G. E. Mitchell, D. Dashdorj, C. M. Frankle, S. L. Lokitz, J. F. Shriner, Jr, AIP Conf. Proc. **769**, 1164 (2005).
19. *Lifetimes of high-spin states in  $^{76}\text{Kr}$* , J. J. Valiente-Dobon et al., Acta Physica Polonica B. **36**, 1339 (2005).
20. *Production of a  $^{76}\text{Kr}$  radioactive ion beam using a batch mode method*, J. R. Cooper, L. Bernstein, M. A. McMahan, J. Powell, D. Wutte, L. Ahle, N. Benczer-Koller, D. Dashdorj, G. Kumbartzki, T. J. Mertzimekis, A. Shiller, C. Silver, M. J. Taylor, Nuclear Instruments and Methods in Physics Research A553, 287-294 (2004).

### Talks and presentations

1. *Effect of pre-equilibrium spin distribution on neutron induced reaction cross sections*, A contributed talk at Compound Nuclear Reactions and Related Topics Workshop, Yosemite National Park, Fish Camp, CA, 22-26 October 2007.
2. *Updates of Gadolinium neutron capture measurements at DANCE*, A contributed talk at the APS Division of Nuclear Physics Fall 2007 meeting, Newport News, VA, October 2007.
3. *Effect of pre-equilibrium spin distribution on neutron induced reaction cross sections*, An invited talk at LANSCE seminar, Los Alamos National Laboratory, Los Alamos, NM, April 2007.

4. *Effect of pre-equilibrium spin distribution on neutron induced  $^{150}\text{Sm}$  cross sections*, A poster at International Conference on Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007.
5. *Pre-Equilibrium spin distribution effects on the neutron induced cross sections*, A poster at the SSAA Symposium, Washington, DC, February 2007, UCRL-POST-227644.
6. *Neutron induced reactions of  $^{150}\text{Sm}$  and influence of spin distribution in the pre-equilibrium process*, A contributed talk at the APS Division of Nuclear Physics Fall 2006 meeting, Nashville, TN, October 2006.
7. *Neutron induced inelastic cross sections of  $^{150}\text{Sm}$  for  $E_n = 1 - 35 \text{ MeV}$* , A poster at the 19th International Conference on the Application of Accelerators in Research and Industry, Fort Worth, Texas, USA, August 20-25, 2006.
8. *How does Pre-equilibrium effect calculations of  $^{48}\text{Ti} + n$  cross sections?*, An invited talk at NNSA Academic Alliance Seminar, LLNL, Livermore, CA, June 2006.
9. *Cross section measurements of fast neutron induced reactions*, An invited talk at Nuclear Research Center, National University of Mongolia, Ulaanbaatar, Mongolia, June 2006.
10. *Neutron induced reactions of  $^{150}\text{Sm}$  and influence of spin distribution in the pre-equilibrium process*, An invited talk at 14th International Seminar on Interaction of Neutrons with Nuclei, JINR, Dubna, Russia, May 2006.
11. *Spin distribution effects in neutron induced pre-equilibrium reactions*, A contributed talk at the 2nd APS and JPS Joint Division of Nuclear Physics meeting, Kapalau, Hawaii, September 2005.
12. *Spin distribution in pre-equilibrium reactions*, A poster at the SSAA symposium, Las Vegas, NV, August 2005, UCRL-POST-214388.
13. *Spin distribution in pre-equilibrium reactions*, An invited talk at the International School on Contemporary Physics - III, Ulaanbaatar, Mongolia, August 2005.
14. *Spin distribution effects in pre-equilibrium reactions:  $^{48}\text{Ti} + n$  case*, An invited talk at T-16 group seminar, Los Alamos National Laboratory, Los Alamos, NM, March 2005.
15.  *$^{48}\text{Ti}(n, xnypz\alpha\gamma)$  reactions for neutron energies up to 250 MeV*, A poster at the International Conference on Nuclear Data ND2004, Santa Fe, NM, September 2004.
16. *Measurement of the partial gamma-ray cross section for  $^{48}\text{Ti} + n$  reaction for  $E_n = 1-20 \text{ MeV}$* , An invited talk at the Joint Meeting of the Nuclear Theory and Modeling and the Experimental Nuclear Physics Groups, LLNL, Livermore CA. May 2004, UCRL-PRES-204688.

17. *Partial gamma ray cross section for the  $^{48}\text{Ti} + n$  reaction*, D. Dashdorj, A poster at the SSAA Symposium, Albuquerque, NM, March 2004, UCRL-POST-203154.
18.  *$^{48}\text{Ti}(n, xnyp\gamma)$  reaction cross sections using spallation neutrons for  $E_n = 1$  to  $250$  MeV*, A contributed talk at the APS Division of Nuclear Physics Fall 2003 meeting, Tucson, AZ, October 2003, UCRL-JC-154205-ABS.
19.  *$^{48}\text{Ti}(n, xnyp\gamma)$  reaction cross sections using spallation neutrons for  $E_n = 1$  to  $20$  MeV*, D. Dashdorj, A poster at the 6-th LANCSE user group meeting, Los Alamos, NM, October 2003. UCRL-POST-200312.