**Christopher Schmitt**

Spallation Neutron Source Scientific Associate

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**Education**

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| --- | --- | --- | --- |
| Georgia Southern University | Physics | B.S. | 2002 |
| University of Notre Dame | Nuclear Physics | M.S. | 2007 |
| University of Notre Dame | Nuclear Physics | Ph.D | 2010 |
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**Appointments**

2016 – Present Scientific Associate at Spallation Neutron Source for CNCS - Cold Neutron Chopper Spectrometer and BASIS - Backscattering Spectrometer)

2012 – 2016 Part-Time Adjunct Faculty, ITT

2011 – 2012 Research Associate III, Operations Manager of the Ion Beam Materials Laboratory, Department of Materials Science & Engineering, the University of Tennessee, Knoxville, TN.

2007 – 2010 Research Assistant at the Nuclear Science Laboratory, Department of Physics, University of Notre Dame

2003 – 2010 Teaching Assistant, Department of Physics, University of Notre Dame

2001 – 2003 Adjunct Faculty, General Education, Ogeechee Technical College

2001 – 2003 Teaching Elementary Physics Labs, Department of Physics, Georgia Southern University

**Publications**

1. W. Lu, P. Collon, Y. Kashiv, M. Bowers, D. Robertson, C. Schmitt “Zr-Nb isobar separation experiments for future 93Zr AMS” Instr. And Meth. Res B Vol 294, Jan 2013, 392-396.
2. M. Bowers, P. Collon, Y. Kashiv, W. Bauder, K. Chamberlin, W. Lu, D. Robertson, C. Schmitt"First experimental results of the 33S(α,p)36Cl cross section for production in the Early Solar System" Instr. And Meth. Res B Vol 294, Jan 2013, 491-495
3. P. Collon, M. Bowers, F. Calaprice, C. Galbiati, D. Henderson, T. Hohman, C.L. Jiang, W. Kutschera, H.Y. Lee, B. Loer, R.C. Pardo, M. Paul, E. Rehm, D. Robertson, C. Schmitt, R. Scott, R. Vondrasek “Reducing Potassium Contamination for AMS Detection of 39Ar with An Electron- Cyclotron-Resonance Ion Source” *Instr. and Meth. Res B*, http://dx.doi.org/10.1016/j.nimb.2012.04.020 (2012)
4. N. Kinoshita, M. Paul, Y. Kashiv, P.Collon, C. M. Deibel, B. DiGiovine, J. P. Greene, D. J. Henderson, C. L. Jiang, S. T. Marley, T. Nakanishi, R. C. Pardo, K. E. Rehm, D. Robertson, R. Scott, C. Schmitt, X. D. Tang, R. Vondrasek, A. Yokoyama “A Shorter 146 Sm Half-Life Measured and Implications for 146Sm-142Nd Chronology in the Solar System” *Science*, VOL 335 1614-1617 (2012)
5. Chris Schmitt, Jay A. LaVerne, Daniel Robertson, Matt Bowers, Wenting Lu, Philippe Collon “Target Dependence for low-Z charge state fractions” Nucl Instru Meth B 269 721-728 (2011)
6. Chris Schmitt, Jay A. LaVerne, Daniel Robertson, Matt Bowers, Wenting Lu, Philippe Collon “Equilibrium charge state distributions for boron and carbon ions emerging

from carbon and aluminum targets” *Nucl. Instr. and Meth. Res B*, 268, 1551-1557 (2010)

1. Chris Schmitt, Jay LaVerne, Daniel Robertson, Matt Bowers, Wenting Lu, Philippe Collon “Equilibrium mean charge states for low Z ions at *\_* 1 MeV/u in Carbon”

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6. Robertson, J. Baker, M. Bowers, P. Collon, J. Heise, K. Keeter, C. Schmitt,

E. Tatar, C. Taylor, W. Lu “Ultra-low 40*K* background measurements for SNO+ using AMS” *Nucl. Instr. and Meth. in Phys. Res. B*(2009)

7. D.Robertson, P.Collon, D.Henderson, S.Kurtz, L.Lamm, C.Schmitt, B.Shumard, J.Webb “First Results from the Nuclear Astrophysics AMS Program at the NSL

Using the MANTIS System in Gas-filled Mode” *Nucl Instru Meth B* 266(2008)

8. D. Acosta-Kane,... Chris Schmitt ..., et. al. “Discovery of underground argon with low level of radioactive 39Ar and possible application to WIMP Dark Matter detectors”

*Nucl Instru Meth A* 587(2008)46 *-*51)

9. A. Yokoyama, H. Amakawa, T. Mitsugashira, T. Ohtsuki, N. Takahashi,

I. Ahmad, J.P. Greene, D.J. Henderson, C.L. Jiang, M. Notani,

R.C. Pardo, N. Patel, K.E. Rehm, R. Scott, R. Vondrasek, L. Jisonna,

P. Collon, D. Robertson, C. Schmitt, X.D. Tang, Y. Kashiv, H. Nassar,

and M. Paul. “Ultra-sensitive detection of p-process nuclide 146*Sm* produced by (*γ n*),

(*pnε*), and (*n;* 2*n*) reactions.” N. Kinoshita, T. Hashimoto, T. Nakanishi,

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10. N. Kinoshita, T. Hashimoto, T. Nakanishi, A. Yokoyama, H.

Amakawa, T. Mitsugashira, T. Ohtsuki, N. Takahashi, I. Ahmad, J.P.

Greene, D.J. Henderson, C.L. Jiang, M. Notani, R.C. Pardo, N. Patel,

K.E. Rehm, R. Scott, R. Vondrasek, L. Jisonna, P. Collon, D.

Robertson, C. Schmitt, X.D. Tang, Y. Kashiv, and M. Paul “Technological Development for Half-life Measurement of 146Sm Nuclide”

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11. D. Robertson, Chris Schmitt, P. Collon, et al. “A New AMS Setup for Nuclear Astrophysics Experiments” *Nucl Instru Meth B* 259, 669672. (2007)

12. Marvin Payne, Lu Deng, Chris Schmitt, Shannon Anderson. “Studies of group-velocity reduction and pulse regeneration with and without the adiabatic approximation”

*Physical Review A* 66*;* (2002).

13. Xiao-junWang, Chris Schmitt, Marvin Payne “Oscillations with three damping effects” *European Journal of Physics*. 23(2002)155-164.