

## Selected Publications

Bay Area Neutron Group, Bethany Goldblum ([bethany@nuc.berkeley.edu](mailto:bethany@nuc.berkeley.edu))

Nuclear Data Group, Lee Bernstein ([labernstein@lbl.gov](mailto:labernstein@lbl.gov))

1. J.C. Batchelder, S.-A. Chong, J. Morrell, M.A. Unzueta, P. Adams, J.D. Bauer, T. Bailey, T.A. Becker, **L.A. Bernstein**, M. Fratoni, A.M. Hurst, J. James, A.M. Lewis, E.F. Matthews, M. Negus, D. Rutte, K. Song, K. Van Bibber, M. Wallace, C.S. Waltz; "Possible evidence of nonstatistical properties in the  $^{35}\text{Cl}(n, p)^{35}\text{S}$  cross section," *Phys. Rev. C* **99**, 044612 (2019). <https://link.aps.org/doi/10.1103/PhysRevC.99.044612>
2. A.M. Lewis, **L.A. Bernstein**, T. Kawano, and D. Neudecker, "Ratio method for estimating uncertainty in calculated gamma cascades." *Eur. Phys. J. A* (2019) **55**:141. <https://doi.org/10.1140/epja/i2019-12826-y>
3. F. Zeiser, G.M. Tveten, G. Potel, A.C. Larsen, M. Guttormsen, T.A. Laplace, S. Siem, D.L. Bleuel, **B.L. Goldblum**, **L.A. Bernstein**, F.J. Bello Garrote, L. Crespo Campo, T.K. Eriksen, A. Görgen, K. Hadynska-Klek, V.W. Ingeberg, J.E. Mitbø, E. Sahin, T. Tornyi, A. Voinov, M. Wiedeking, and J. Wilson, "Restricted spin-range correction in the Oslo Method: The example of nuclear level and  $\gamma$ -ray strength function from  $(d, p\gamma)^{240}\text{Pu}$ ," *Phys. Rev. C* **100**, 024305 (2019). <https://link.aps.org/doi/10.1103/PhysRevC.100.024305>
4. Daniel Rutte, Jonathan Morrell, Liqiang Qi, Mauricio Ayllon, Paul R. Renne, Karl van Bibber, Jonathan Wilson, Tim A. Becker, Jon Batchelder, **Lee Bernstein**, Mathieu Lebois, Jay James, Su-Ann Chong, Will Heriot, Max Wallace, Angel Marcial, Charles Johnson, Graham Woolley, Parker Adams, Howard Mattis; Boutique Neutrons Advance  $^{40}\text{Ar}/^{39}\text{Ar}$ -geochronology, *Science Advances* 11 Sep 2019: Vol. 5, no. 9, eaaw5526 <http://doi.org/10.1126/sciadv.aaw5526>
5. Jackson Van Dyke, **LA Bernstein**, and Ramona Vogt; "Parameter optimization and uncertainty analysis of FREYA for spontaneous fission." *Nuclear Inst. and Methods in Physics Research A* **922**, 1 April 2019, Pages 36-46. <https://doi.org/10.1016/j.nima.2019.01.001>
6. A.M. Hurst, A. Sweet, **B.L. Goldblum**, R.B. Firestone, M.S. Basunia, **L.A. Bernstein**, Zs. Révay, L. Szentmiklósi, T. Belgya, J.E. Escher, I. Harsányi, M. Krtička, B.W. Sleaford and J. Vujic, "Radiative-capture cross sections for the  $^{139}\text{La}(n, g)$  reaction using thermal neutrons and structural properties of  $^{140}\text{La}$ ," *Phys. Rev. C*, **99**, 024310 (2019). <https://link.aps.org/doi/10.1103/PhysRevC.99.024310>
7. J.E. Bevins, Z. Sweger, N. Munshi, **B.L. Goldblum**, J.A. Brown, D.L. Bleuel, **L.A. Bernstein**, and R.N. Slaybaugh, "Performance Evaluation of an Energy Tuning Assembly for Neutron Spectral Shaping," *Nucl. Instrum. Meth. A* **923**, 79-87 (2019). <https://doi.org/10.1016/j.nima.2019.01.049>
8. T.A. Laplace, **B.L. Goldblum**, J.A. Brown, D.L. Bleuel, C.A. Brand, G. Gabella, T. Jordan, C. Moore, N. Munshi, Z.W. Sweger, A. Ureche and E. Brubaker, "Low Energy Light Yield of Fast Plastic Scintillators," *Nucl. Instrum. Meth. A* (2018). <https://doi.org/10.1016/j.nima.2018.10.122>
9. M.K. Covo, R.A. Albright, B.F. Ninemire, M.B. Johnson, A. Hodgkinson, T. Loew, J.Y. Benitez, D.S. Todd, D.Z. Xie, T. Perry, L. Phair, **L.A. Bernstein**, J. Bevins, J.A. Brown, **B.L. Goldblum**, M. Harasty, K.P. Harrig, T.A. Laplace, E.F. Matthews, A. Bushmaker, D. Walker, V. Oklejas, A.R. Hopkins, D.L. Bleuel, J. Chen and S.B. Cronin, "The 88-Inch Cyclotron: A One-stop Facility for Electronics Radiation and Detector Testing," *Measurement* **127**, 580 (2018). <https://doi.org/10.1016/j.measurement.2017.10.018>
10. J.A. Brown, **B.L. Goldblum**, T.A. Laplace, K.P. Harrig, **L.A. Bernstein**, D.L. Bleuel, W. Younes, D. Reyna, E. Brubaker, and P. Marleau, "Proton Light Yield in Organic Scintillators using a Double Time-of-Flight Technique," *J. Appl. Phys.* **124**, 045101 (2018). <https://doi.org/10.1063/1.5039632>
11. E.F. Matthews, **B.L. Goldblum**, **L.A. Bernstein**, B.J. Quiter, J.A. Brown, W. Younes, J.T. Burke, S.W. Padgett, J.J. Ressler, and A.P. Tonchev, "FIER: Software for analytical modeling of delayed gamma-ray spectra," *Nucl. Instrum. Meth. A*, **891**, 111 (2018). <https://doi.org/10.1016/j.nima.2018.02.072>
12. K.P. Harrig, **B.L. Goldblum**, J.A. Brown, D.L. Bleuel, **L.A. Bernstein**, J. Bevins, M. Harasty, T.A. Laplace, and E.F. Matthews, "Neutron Spectroscopy for Pulsed Beams with Frame Overlap using a Double Time-of-Flight Technique," *Nucl. Instrum. Meth. A*, **877**, 359 (2018). <https://doi.org/10.1016/j.nima.2017.09.051>