Selected Publications

Andrew S. Voyles

March 9, 2021

D. Gjestvang, S. Siem, F. Zeiser, J. Randrup, R. Vogt, J.N. Wilson, F. Bello-Garrote, L.A. Bernstein, D.L. Bleuel, M. Guttormsen, A. Görgen, A.C. Larsen, K.L. Malatji, E.F. Matthews, A. Oberstedt, S. Oberstedt, T. Tornyi, G.M. Tveten, and **A.S. Voyles**, *Excitation energy dependence of prompt fission γ-ray emission from $^{241}Pu^*$.* Physical Review C, *Accepted Feb 2021, in press.*

Andrew S. Voyles, Amanda M. Lewis, Jonathan T. Morrell, M. Shamsuzzoha Basunia, Lee A. Bernstein, Jonathan W. Engle, Stephen A. Graves, and Eric F. Matthews, *Proton-induced reactions on Fe, Cu, & Ti from threshold to 55 MeV.* The European Physical Journal A, *Accepted Feb 2021, in press.*

Morgan B. Fox, **Andrew S. Voyles**, Jonathan T. Morrell, Lee A. Bernstein, Amanda M. Lewis, Arjan J. Koning, Jon C. Batchelder, Eva R. Birnbaum, Cathy S. Cutler, Dmitri G. Medvedev, Francois M. Nortier, Ellen M. O'Brien, and Christiaan Vermeulen, *Investigating high-energy proton-induced reactions on spherical nuclei: Implications for the preequilibrium exciton model.* Physical Review C, **103** (2021) 034601. https://doi.org/10.1103/PhysRevC.103.034601

PDF

Ryan K. Chapman, **Andrew S. Voyles**, Narek Gharibyan, Lee A. Bernstein, and James E. Bevins, *Measurement of the $^{160}Gd(p,n)^{160}Tb$ excitation function from 4–18 MeV using stacked-target activation.* Applied Radiation and Isotopes, **171** (2021) 109647.
https://doi.org/10.1016/j.apradiso.2021.109647

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D.L. Bleuel, L.A. Bernstein, R.A. Marsh, J.T. Morrell, B. Rusnak, and **A.S. Voyles**, *Precision measurement of relative γ-ray intensities from the decay of ^{61}Cu.* Applied Radiation and Isotopes, **170** (2021) 109625. https://doi.org/10.1016/j.apradiso.2021.109625

PDF

M. Shuza Uddin, Bernhard Scholten, M. Shamsuzzhoha Basunia, Sandor Sudár, Stefan Spellerberg, **Andrew S. Voyles**, Jonathan T. Morrell, Haleema Zaneb, Jesus A. Rios, Ingo Spahn, Lee A. Bernstein, Bernd Neumaier, and Syed M. Qaim, *Accurate Determination of Production Data of the Non-Standard Positron Emitter ^{86}Y via the $^{86}Sr(p,n)$-Reaction.* Radiochimica Acta, **108** (2020) 747-756. https://doi.org/10.1515/ract-2020-0021

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M.S. Basunia, J.T. Morrell, M.S. Uddin, **A.S. Voyles**, C.D. Nesaraja, L.A. Bernstein, E. Browne, M.J. Martin, and S.M. Qaim, *Resolution of a discrepancy in the γ-ray emission probability from the β decay of $^{137}Ce^g$.* Physical Review C, **101** (2020) 064619. https://doi.org/10.1103/PhysRevC.101.064619

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G.B. Kim, S.T.P. Boyd, R.H. Cantor, **A.S. Voyles**, J.T. Morrell, L.A. Bernstein, and S. Friedrich, *A New Measurement of the 60 keV Emission from Am-241 Using Metallic Magnetic Calorimeters.* Journal of Low Temperature Physics, (2020) 1-7. https://doi.org/10.1007/s10909-020-02412-7

PDF

Jonathan T. Morrell, **Andrew S. Voyles**, M. S. Basunia, Jon C. Batchelder, Eric F. Matthews, and Lee A. Bernstein, *Measurement of $^{139}La(p,x)$ cross sections from 35–60 MeV by stacked-target activation.* The European Physical Journal A, **56** (2020) 13. https://doi.org/10.1140/epja/s10050-019-00010-0

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Lee A. Bernstein, David A. Brown, Arjan J. Koning, Bradley T. Rearden, Catherine E. Romano, Alejandro A. Sonzogni, **Andrew S. Voyles**, and Walid Younes, *Our Future Nuclear Data Needs.* Annual Review of Nuclear and Particle Science, **69.1** (2019) 109–136. https://doi.org/10.1146/annurev-nucl-101918-023708

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Andrew S. Voyles, *Nuclear Excitation Functions for the Production of Novel Medical Radionuclides*, University of California, Berkeley, (2018). https://search.proquest.com/docview/2135771326

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Andrew S. Voyles, Lee A. Bernstein, Eva R. Birnbaum, Jonathan W. Engle, Stephen A. Graves, Toshihiko Kawano, Amanda M. Lewis, and Francois M. Nortier, *Excitation functions for (p,x) reactions of niobium in the energy range of $E_p = 40$–90 MeV.* Nuclear Instruments and Methods in Physics Research B, **429** (2018) 53–74. https://doi.org/10.1016/j.nimb.2018.05.028

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Mauricio Ayllon, Parker A. Adams, Joseph D. Bauer, Jon C. Batchelder, Tim A. Becker, Lee A. Bernstein, Su-Ann Chong, Jay James, Leo E. Kirsch, Ka-Ngo Leung, Eric F. Matthews, Jonathan T. Morrell, Paul R. Renne, Andrew M. Rogers, Daniel Rutte, **Andrew S. Voyles**, Karl Van Bibber, and Cory S. Waltz, *Design, construction, and characterization of a compact DD neutron generator designed for $^{40}Ar/^{39}Ar$ geochronology.* Nuclear Instruments and Methods in Physics Research A, **903** (2018) 193–203. https://doi.org/10.1016/j.nima.2018.04.020

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A.S. Voyles, M.S. Basunia, J.C. Batchelder, J.D. Bauer, T.A. Becker, L.A. Bernstein, E.F. Matthews, P.R. Renne, D. Rutte, M.A. Unzueta, and K.A. van Bibber, *Measurement of the ^{64}Zn,^{47}Ti(n,p) Cross Sections using a DD Neutron Generator for Medical Isotope Studies.* Nuclear Instruments and Methods in Physics Research B, **410** (2017) 230–239. https://doi.org/10.1016/j.nimb.2017.08.021

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