

Selected Publications

Andrew S. Voyles

May 15, 2025

- J.M. Gordon, J.A. Brown, B.L. Goldblum, T.A. Laplace, J.C. Batchelder, D.L. Bleuel, B. Buckley, A. Georgiadou, C. Henderson, T. Johnson, J.W. Lee, K. Myers, T. Nagel, J.R. Sebastian, **A.S. Voyles**, and L.A. Bernstein, $^{12}\text{C}(n, n'_1 \gamma)$ partial γ -ray cross section measured using the GENESIS array. *Physical Review C*, **111** (2025) 044608. <https://doi.org/10.1103/PhysRevC.111.044608>
- Shuza M Uddin, Ingo Spahn, M Shamsuzzoha Basunia, **Andrew S Voyles**, Stefan Spellerberg, Mazhar Hussain, Sándor Sudár, Lee A Bernstein, Bernd Neumaier, Syed M Qaim, *An overview of production routes of the non-standard positron emitter ^{86}gY with emphasis on a comparative analysis of the $^{86}\text{Sr}(p, n)$ - and $^{86}\text{Sr}(d, 2n)$ -reactions*. *Radiochimica Acta*, **113** (2025). <https://doi.org/10.1515/ract-2024-0375>
- Sinthia Binte Kholil, M. Shuza Uddin, M. Mehedi Hasan, A. Kumer Chakraborty, M. Asad Shariff, **Andrew S. Voyles**, and Ingo Spahn, *Excitation functions of proton-induced nuclear reactions on titanium*. *Radiochimica Acta*, **aop** (2024). <https://doi.org/10.1515/ract-2024-0347>
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- Jonathan T. Morrell, Ellen M. O'Brien, Michael Skulski, **Andrew S. Voyles**, Dmitri G. Medvedev, Veronika Mocko, Lee A. Bernstein, and C. Etienne Vermeulen, *Measurement of Proton-Induced Reactions on Lanthanum from 55–200 MeV by Stacked-Foil Activation*. *Physical Review C*, (submitted).
- Md. Shuza Uddin, Sándor Sudár, M. Shamsuzzoha Basunia, Ingo Spahn, **Andrew S. Voyles**, Alex Hermanne, Lee A. Bernstein, Bernd Neumaier, and Syed. M. Qaim, *Cross sections for the formation of $^{84}\text{Rb}^{m,g}$, ^{83}Rb and $^{82}\text{Rb}^m$ in $^{86}\text{Sr}(d, x)$ -reactions up to deuteron energies of 49 MeV: competition between α -particle and multi-nucleon emission processes*. *Physical Review C*, (submitted).
- Md. Shuza Uddin, Sándor Sudár, M. Shamsuzzoha Basunia, Bernhard Scholten, Stefan Spellerberg, **Andrew S. Voyles**, Jonathan T Morrell, Ingo Spahn, Alex Hermanne, Lee A. Bernstein, Bernd Neumaier, and Syed. M. Qaim, *Excitation functions and isomeric cross-section ratios of (d, xn) reactions on ^{86}Sr* . *The European Physical Journal A*, **60** (2024) 128. <https://doi.org/10.1140/epja/s10050-024-01330-6>
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- N. Burahmah, J.R. Griswold, L.H. Heilbronn, L.A. Bernstein, **A.S. Voyles**, J.T. Morrell, M. Zach, and R. Copping, ^{229}Pa cross section measurements via deuteron irradiation of ^{232}Th . *Physical Review C*, **108** (2023) 024609. <https://doi.org/10.1103/PhysRevC.108.024609>
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- Jonathan T. Morrell, **Andrew S. Voyles**, Jon C. Batchelder, Joshua A. Brown, and Lee A. Bernstein, *Secondary Neutron Production from Thick Target Deuteron Breakup*. *Physical Review C*, **108** (2023) 024616. <https://doi.org/10.1103/PhysRevC.108.024616>
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- F. Pogliano, F. L. Bello Garrote, A. C. Larsen, H. C. Berg, D. Gjestvang, A. Görgen, M. Guttormsen, V. W. Ingeberg, T. W. Johansen, K. L. Malatji, E. F. Matthews, M. Markova, J. E. Midtbø, V. Modamio, L. G. Pedersen, E. Sahin, S. Siem, T. G. Tornyi, and **A. S. Voyles**, *Observation of a candidate for the $M1$ scissors resonance in odd-odd ^{166}Ho* . *Physical Review C*, **107** (2023) 034605. <https://doi.org/10.1103/PhysRevC.107.034605>

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