

## Publications

### Chelsea Bartram

#### Submitted Manuscripts:

- **Bartram, C.**, et al. “Dark Matter Axion Search using a Josephson Traveling Wave Parametric Amplifier” arXiv preprint arXiv (2021). *Contribution: Piloted the first axion search that used a JTWPA. Wrote original draft.* Status: Submitted to PRL.
- Li, X., et al. “Proton Scattering from Linearly Polarized Gamma Rays”. *Contribution: Participated in beam shifts.* Status: Submitted to PRL.

#### Accepted Refereed Manuscripts:

- Bartram, C., et al. “Search for ‘Invisible’ Axion Dark Matter in the 3.3-4.2  $\mu$  eV Mass Range.” arXiv preprint arXiv:2110.06096 (2021). *Contribution: Led data-taking operations and analysis that resulted in paper.* Status: Accepted by PRL.
- **Bartram, C.**, et al. “Axion Dark Matter eXperiment: Run 1B Analysis Details.” Physical Review D 103.3 (2021): 032002. *Contribution: Wrote original draft, developed analysis, corresponding author*
- **Bartram, Chelsea**, Reyco Henning, and Daniel Primosch. “Demonstration of o-Ps detection with a cylindrical array of NaI detectors.” Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment (2020): 163856. *Contribution: Designed and built experiment, performed formal analysis, developed simulation, wrote original draft, corresponding author.*
- Khatiwada, R., et al. “Axion dark matter experiment: Detailed design and operations.” Review of Scientific Instruments 92.12 (2021): 124502. *Contribution: Wrote 40% of sections and revised full paper.* Status: Accepted by RSI with minor revisions.
- Li, X., et al. “Compton scattering from He 4 at the TUNL HI $\gamma$ S facility.” Physical Review C 101.3 (2020): 034618. *Contribution: Participated in beam shifts, provided input at analysis meetings.*
- Sikora, M. H., et al. “Compton scattering from He 4 at 61 MeV.” Physical Review C 96.5 (2017): 055209. *Contribution: Participated in beam shifts, provided input at analysis meetings.*

#### Other Writings:

- **Bartram, Chelsea**. “PoS (ICHEP2020) 004 Wave-Like Dark Matter and Axions.” (2020).
- **Bartram, C.**, and R. Henning. “Caliope: a search for CPT-violation in o-ps.” Journal of Physics: Conference Series. Vol. 1342. No. 1. IOP Publishing, 2020.
- **Bartram, C.**, and E. J. Daw. “Snowmass2021-Letter of Interest.”
- Carosi, Gianpaolo. “Snowmass2021-Letter of Interest Frequency Multiplexed Dark Matter Axion Searches.”