

Lehigh Physics REU Research Symposium

Rausch Business Center Room 137

2:00 PM

7 August 2025

Schedule of presentations:

- 2:00 Quality Assurance Analysis of Au+Au Collision Data Recorded in the sPHENIX Time Projection Chamber (TPC). **Rachel Cuth**, Adeeb Saed, and Anders Knospe.
- 2:15 Enhancing experimental reproducibility through line-synchronized triggering. **Nikolas Cruz** and Ariel Sommer.
- 2:30 Accelerated Phase Space Mapping of Heuslerene Monolayers Using Deep Learning. **Justin B. Hart**, Srihari M. Kastuar, and Chinedu E. Ekuma.
- 2:45 Particle simulations of membrane hole repair by protein condensation. **Teegan Lannon**, Seyed Sajjad Hosseini, and Dimitrios Vavylonis.
- 3:00 Implementing Horizontal Light Sheets in a Multi-Region Trap for Lithium-6 Atoms. **Loghan Michell**, Nikolas Cruz, Olivia Blogg, Ming Lian, Max Mrozek-McCourt, Daniel Huffman, and Ariel Sommer.
- 3:15 Measuring $dN_{ch}/d\eta$ for Au+Au Collisions Using the sPHENIX Event Plane Detector. **John Palacios**, Evan Croft, and Rosi J. Reed.
- 3:30 System size dependence of Dijet momentum imbalance. **Wim Ernst Wjismueller Van Rossum**, Tristan Protzman, and Rosi Reed.