
Introduction and UNH Projects

Tensor SIDIS Workshop and b1/Azz Collaboration Meeting
June 03rd, 2026

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Introduction | Background

- Utsav Shrestha
- New postdoc in the **UNH Polarized Target Group**
- Background in **experimental nuclear and particle physics**
- Experience with **CLAS/CLAS12 at Jefferson Lab** and **SpinQuest/E1039 at Fermilab**
- Research interests are spin physics, hadron structure, detector systems, DAQ, and data analysis
- Excited to contribute to the **tensor polarized target program**

Current Projects

Tensor b1/Azz physics program

- Learning the physics goals, experimental setup, and analysis needs
- Supporting future analysis and preparation work

Hall B Run Group C data analysis

- Working toward RGC data analysis using polarized target information
- Understanding target polarization and run conditions

Polarized target lab and Cooldown work

- Participating in target system operation and periodic cooldown preparation
- Learning cryogenic systems, NMR, microwave, DAQ, and target monitoring

LabVIEW to Python DAQ transition

- Studying existing UNH LabVIEW based DAQ system
- Comparing with JLab Python based PyNMR/DAQ structure
- Help develop a maintainable Python based DAQ framework

Future Projects and Interests

- **RGC analysis channel** supporting polarized target observables and tensor **b1/Azz** physics goals
- **CLAS service work** toward CLAS membership, using experience in analysis, detector studies, and software development
- Any suggestions?