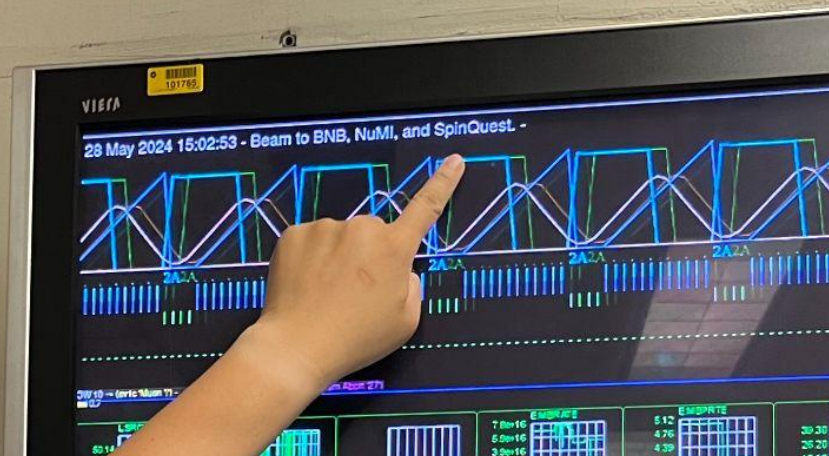
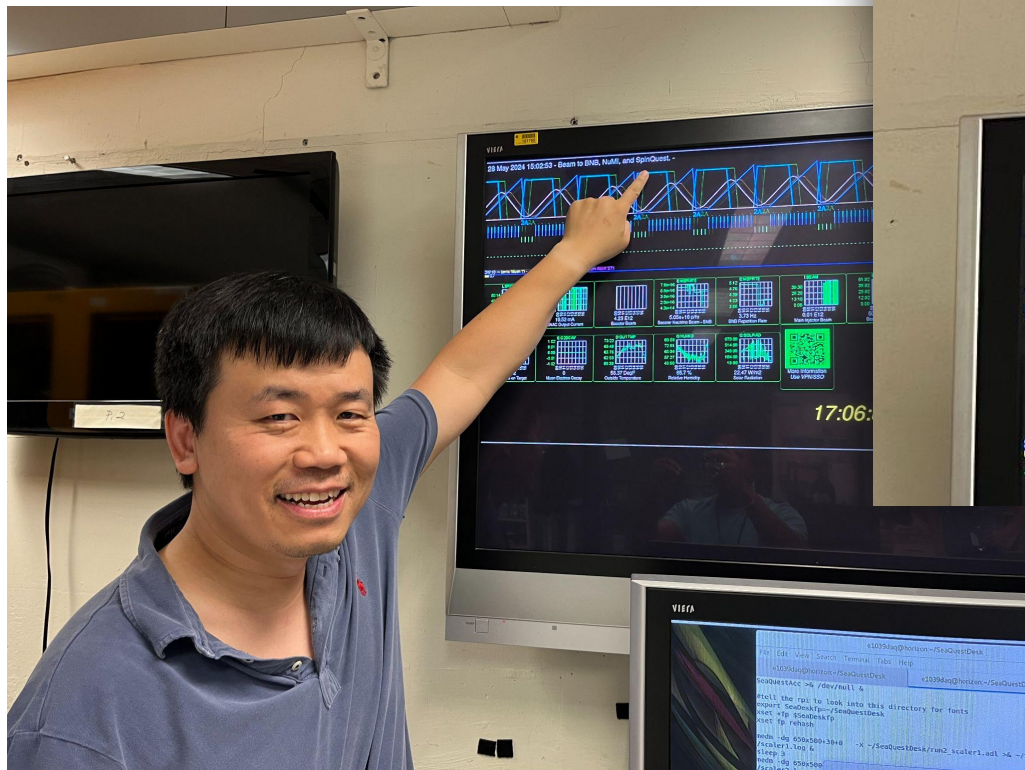


SpinQuest RunCo Report

Kun Liu (LANL)
Proton PMG / All Experimenters' Meeting
6/6/2024

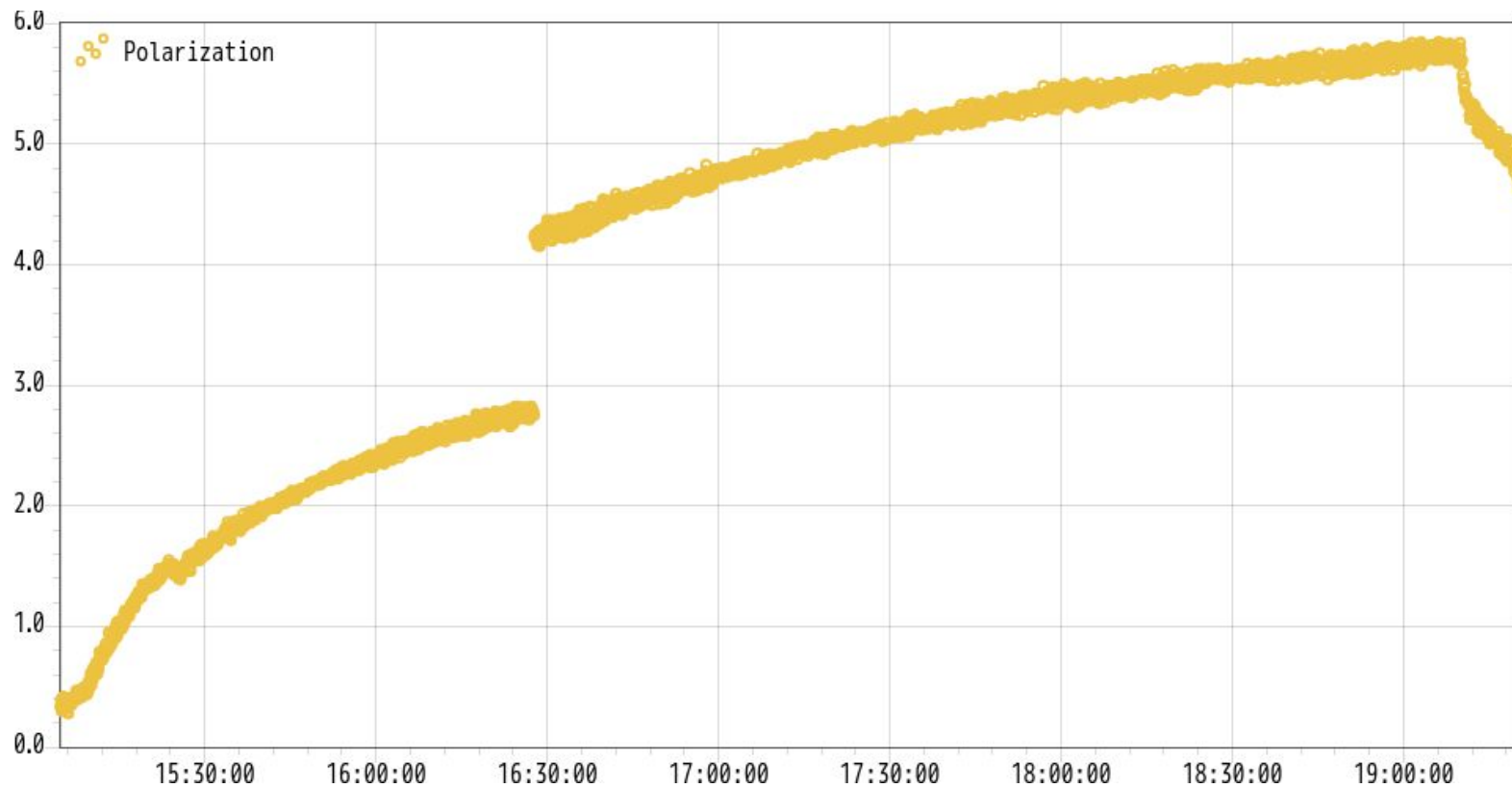
We are in the timeline now!



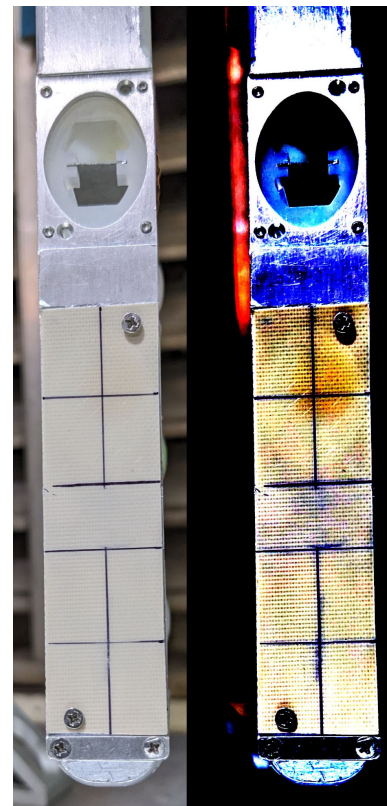
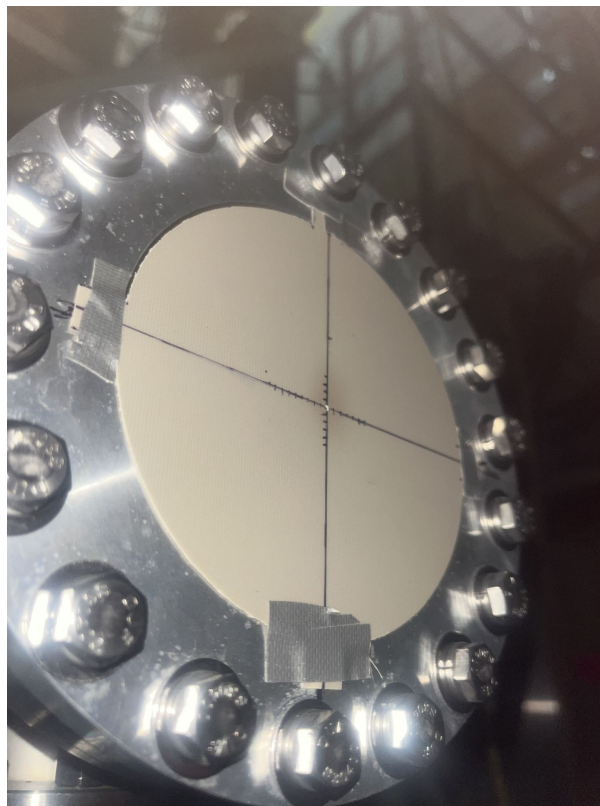
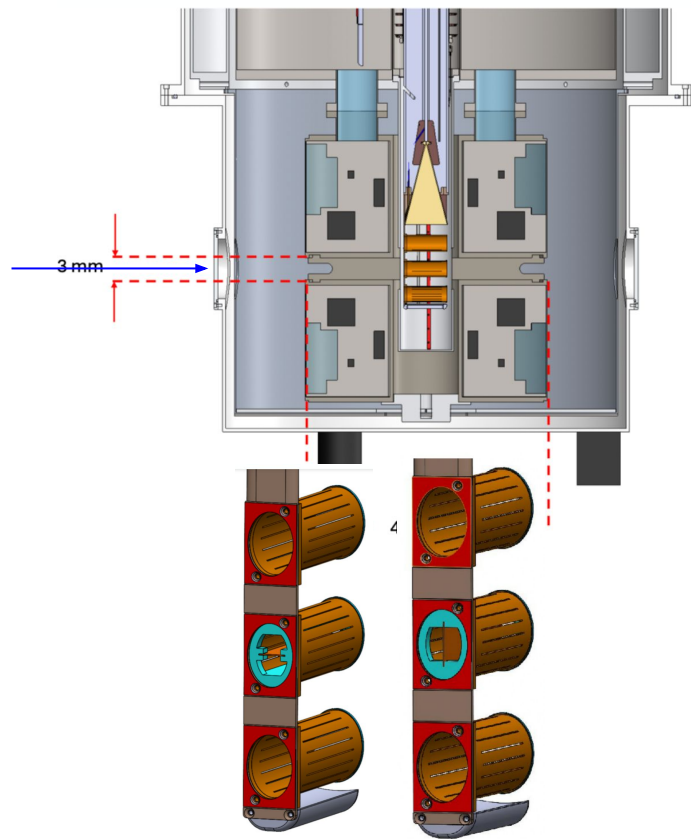
Short timeline

- First long/stable beam started last Thursday
- First time running superconducting magnet with polarized target in beam
- Completed two rounds of target/beam alignment is done
- Initial timing of the detector is completed

First polarization on 6/1

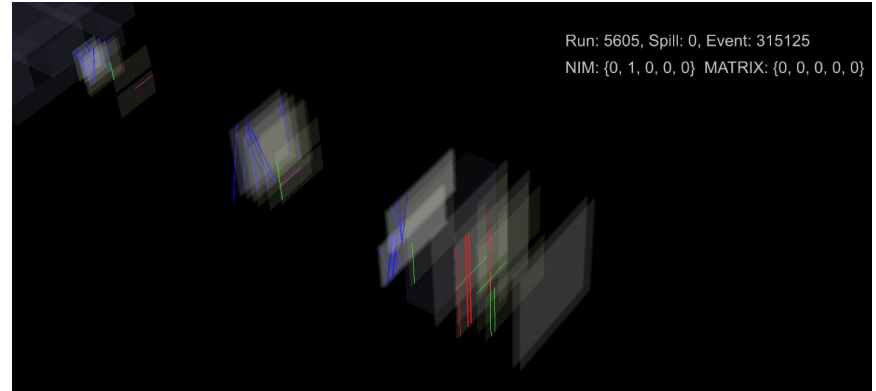
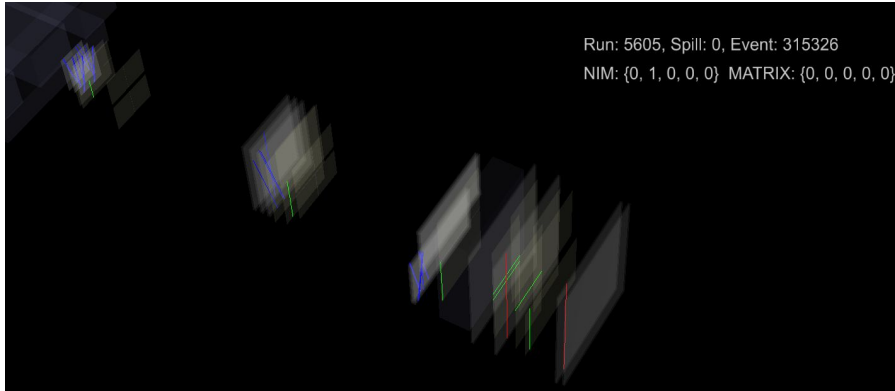
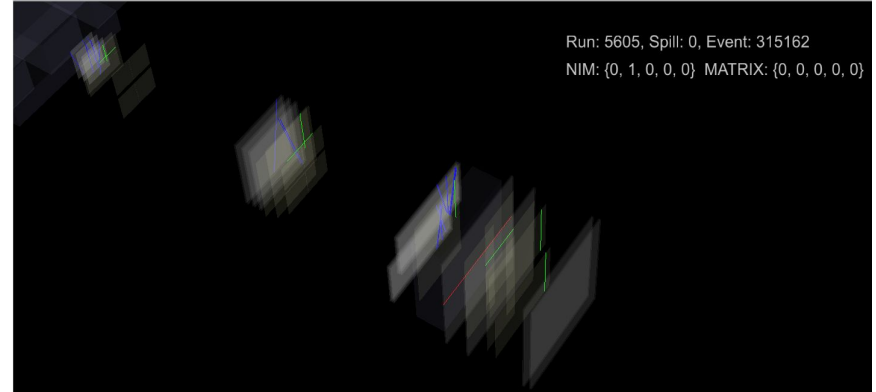


Target/beam alignment



Ramping up the spectrometer

- Detectors are roughly timed in with wide-open time window
- HV of the tracking detectors are not optimized yet
- Clear global single muons observed



Summary

- SpinQuest has seen its first beam!
- Demonstrated a working polarized target with beam
- Spectrometer commissioning is still in its early stage - but it already started capturing muons
- In the next few weeks
 - Explore the operation envelope of the polarized target with beam
 - Commissioning the spectrometer to capture dimuon events
 - Take a short dedicated J/Psi run for physics before summer shutdown