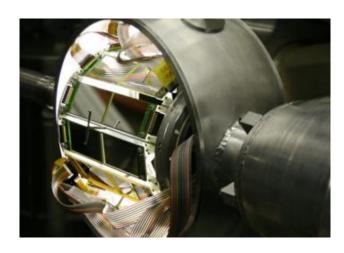
Silicon Array Working Group:

Heard community updates on:

- Physics scope
- Existing, new and planned devices
- Community needs for instrumentation
- Community needs for beams and beam quality (esp. purity)



Session Agenda

- Decay measurements at FRIB
- Helios Silicon Upgrade
- APOLLO with HELIOS
- ANASEN Overview
- sORRUBA + JENSA for astrophysics
- Si Tracking Array
- Silicon + gamma setups at FRIB
- Update on HINP4 ASICs

Chris Wrede (MSU)

Daniel McNeel (University of Connecticut)

Jack Winkelbauer (LANL)

Jeff Blackmon (Louisiana State University)

Kelly Chipps (ORNL)

Dennis Mücher (University of Guelph)

Steve Pain (ORNL)

Lee Sobotka (WashU)

Community discussion

Silicon Array Working Group:

Priority Physics

- Direct (a,p) (p,a) measurements
- Scattering and transfer on rp process nuclei
- Transfer on r process nuclei
- Surrogate measurements for n capture
- Decay measurements on protonrich nuclei

Priority (Planned) Equipment

- Community support for a large (up to 1000ch) suite of standardized FRIB digitizer/DAQ explicitly for Si, well integrated and readily coupled to other large devices (HRS,GRETINA,ISLA,etc)
- ASICs system required for large (1000+) channel systems
- Some standardization of FRIB detectors possible, but many individual systems stewarded across the community
- Si for HELIOS-like spectrometer

Priority Beams

- Si detectors are used for too broad a physics scope to list individual nuclides here
- Proton-rich beams of rp-process nuclei
- Neutron-rich nuclei (esp in vicinity of shell closures)

Beam property and DAQ requirements?

- Beam purity is a paramount concern to the community
- Community concern about beam detectors coping with contaminated beams at FRIB rates (and time structure)
- May be necessary to couple to recoil separators to fill this need (at cost of experimental complication)
- Well integrated DAQ with other devices, ability to view/analyze merged data in real time