

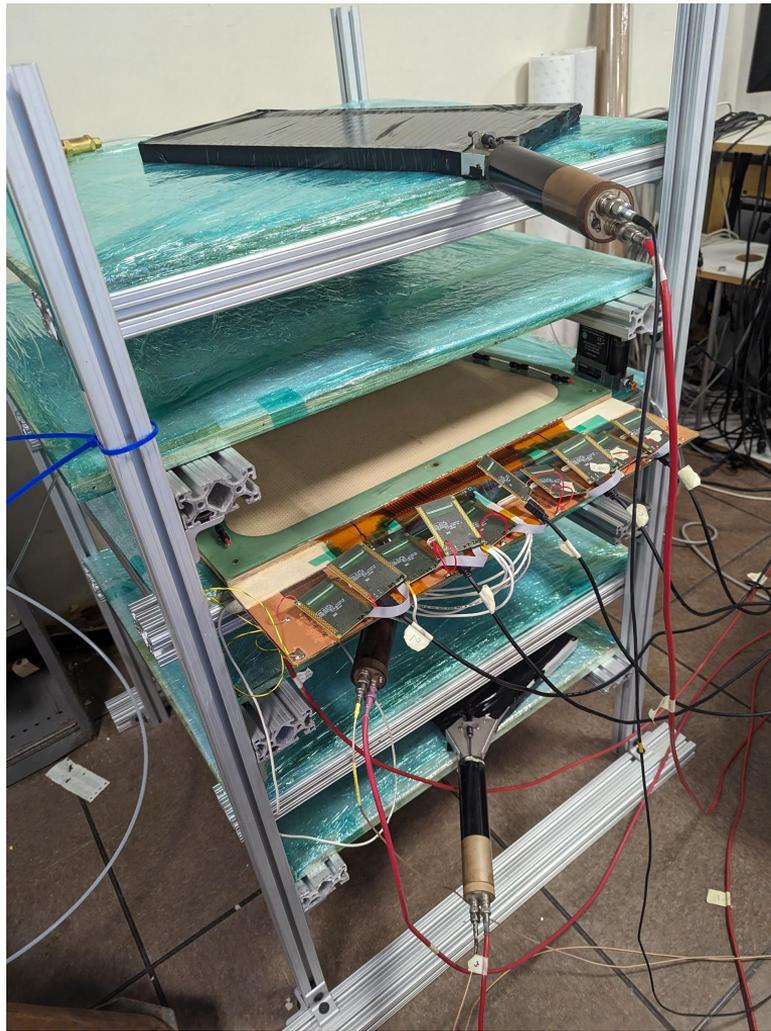
Updates 11/17/2023

Cosmic ray tracker

CODA DAQ and DAQ systems per experiment (GEM detectors, DIRC, PIONEER) should be explored and understood

In understanding DAQ for GEMs, James sent test pulses and we received poor data with noise. After detaching APVs from the GEM, we realized it was most likely not the FEC, ADC, or APVs but rather noise from the GEM foil itself.

Cosmic ray tracking will be integral to several experiments and we need to synchronize data that is taken. Wrapped Scintillators in electrical tape to avoid light leakage.



NSBP conference 2023



Activities

Oakridge National Laboratory tour (neutron spallation source, Frontier computer, neutrino alley, talk by several physicists including David Spergel and representatives from FRIB)

College fee waivers for graduate school

Strongest focuses: Astrophysics/cosmology, quantum (AMO+condensed matter), accelerators (nuclear, particle, high energy)