

- Important for us to perform muon beam studies at Fermilab (May 31 – June 7) while Bob, Thomas, and Tim work on the designs of new readout boards and test beam setup
  - Analyzing Notre Dame test beam data
  - A few days for us to design and build another plastic holder to have SiPM boards mounted on both ends of the crystal
  - Study PbF<sub>2</sub>, PWO+Hoya R60 filter, BGO+U33 filter (PWO with a length of 6 cm and 20 cm, BGO with a length of 18 cm, PbF<sub>2</sub> with a length of 6 cm)
  - Use 16-channel DRS4 digitizer from CAEN to read out all 8 siPM channels
  - Use two 4×4 cm<sup>2</sup> scintillators provided by Jim Freeman for muon trigger and rough angle measurement
  - Need simulation studies from Mekhala
  - Try to observe single photon peak using pulsed LED before test beam runs
  - Perform studies with a Na22 source (probably after test beam runs)
  - Perform cosmic ray studies with small scintillators (after test beam runs)