

# Setup with beam

- ◆ Expect cryostat full by Friday (today) evening
- ◆ With beam on
  - Set up scintillators and beam trigger
  - Set up ITEP BPCs
  - Center the beam on the small (7.5 mm diameter) scintillator and on the shower calorimeters
  - Tune beam for small, centered spot
  - Final preparations of the DAQ, including the BPC summary hits
- ◆ Determine HV current draw from middle tube segment at 250 V
  - This tells us the source activity and determines the HV range
- ◆ When cryostat is stable
  - Disconnect mil-spec and calibration pulser
  - Measure noise levels
  - Optimize grounding to minimize the noise

# FCalPulse Run program - Draft

## ◆ Taking data

- Cycle thru O<sub>2</sub> contamination – Start at <0.1 ppm
  - ◆ Cycle thru HV settings (50 – 300 V) and polarity to the rod/tube electrode (SCal stays at +2 kV)
    - Cycle between up/down assemblies
- Study x-talk between tube segments
  - ◆ Turn off HV to middle tube segment with 250 V on ends
  - ◆ Turn off HV to end tube segments with 250 V on middle