

## **Physics Division:**

**Dan Dwyer, Vic Gehman, Cheng-Ju Lin, Kam-Biu Luk, Herbert Steiner**

## **Computational Research Division:**

**Simon Patton, Craig Tull**

## **Members of our group have interests in the following areas:**

### **Beamtest coordination: (Lin)**

- Define testbeam program, beam diagnostics, coordinate with CERN
- Lin has conducted a beam test in EHN2 recently. Familiar with SPS operations and experience working with CERN beamline physicists

### **Detector simulation: (Gehman, Lin, Luk)**

- Gehman has expertise in Noble gas simulation

### **Higher level analysis: (Dwyer, Lin)**

- Physics sensitivity studies
- Calibration studies

## Data Management (Patton + Tull)

- Automate data transfer from CERN to remote sites
- Data Catalog for offline analysis
- Patton and Tull have developed data management software for Daya Bay, IceCube and other experiments

## Hardware Contributions: (Dwyer, Gehman, Lin, Luk, Steiner)

- Interested in TPC, photon detection, and calibration system
- Gehman is already involved in the photon detection system
- Interested in contributing to the laser calibration system
- Dwyer and Lin played important roles on the calibration program for the Daya Bay experiment
- Steiner designed the  $4\pi$  calibration system for KamLAND
- LBNL engineering staff and state-of-the-art machine shop are available to design and manufacture components for the CERN beamtest