

Long Baseline Neutrino Experiment (Project)

NSF

DOE

DUSEL

LBNE Office
(FNAL)

S4 Office
(UC Davis)

NEAR DET
(LANL?)

WCh Detector
Office (BNL)

LAr Detector
Development

BEAM



Long Baseline Neutrino Experiment (Science Collaboration)

- **~150 people**
- **Science Goals:**
- Neutrino Mass Hierarchy & CP violation
- Supernovae
- Relic Supernovae
- Proton Decay
- neutrino physics



S4 Work

- Deck Design Concept (Duke)
- Thermal Control (RPI/LLNL)
- Cranes and movement infrastructure (Duke)
- Magnetic Field Compensation (RPI/UC Davis)
- PMT characterization (Penn/Drexel)
- Water System (Gadolinium) development (UC Irvine/LLNL)
- Light Collector evaluation (Caltech/Drexel/S.Carolina)
- PMT QA, mobilization planning (Wisconsin)
- Simulations for Engineering Specifications (Duke+all)
- Electronics (BU/Penn)
- Calibration Planning (UC Davis – temp)
- Outreach (UC Davis)

LBNE Meeting Oct 4-6, Lead

- ~85 people registered
- plenary sessions tomorrow
- technical meetings Monday and Tuesday(DUSEL staff encouraged to attend)
- Richard Kadel: DUSEL contact person