

# **What Do We Need To Do To Further Promote the Long-Baseline Science Case?**

**Moderator: Stephen Parke**

**Panelists: Tord Ekelöl, Josh Klein, Mark Messier, Tsuyoshi Nakaya, Heidi Schellman**

# What Do We Need To Do To Further Promote the Long-Baseline Science Case?

Moderator: Stephen Parke

Panelists: Tord Ekelöl, Josh Klein, Mark Messier, Tsuyoshi Nakaya, Heidi Schellman

- (1) What is the best response to the comment "A LBL Neutrino Experiment is an expensive, one number experiment,  $\Delta_{CP}$ ?" Alternatively, "the only interesting values for  $\Delta_{CP}=0$  or  $\pi$ , i.e. No CP violation!"

# What Do We Need To Do To Further Promote the Long-Baseline Science Case?

Moderator: Stephen Parke

Panelists: Tord Ekelöl, Josh Klein, Mark Messier, Tsuyoshi Nakaya, Heidi Schellman

- (1) What is the best response to the comment "A LBL Neutrino Experiment is an expensive, one number experiment,  $\Delta_{CP}$ ?" Alternatively, "the only interesting values for  $\Delta_{CP}=0$  or  $\pi$ , i.e. No CP violation!"
- (2) Is Leptogenesis a better argument for double beta decay experiments (majorana  $\nu$  dirac) than for CP violation in neutrino oscillation?

# What Do We Need To Do To Further Promote the Long-Baseline Science Case?

Moderator: Stephen Parke

Panelists: Tord Ekelöl, Josh Klein, Mark Messier, Tsuyoshi Nakaya, Heidi Schellman

- (1) What is the best response to the comment "A LBL Neutrino Experiment is an expensive, one number experiment,  $\Delta_{CP}$ ?" Alternatively, "the only interesting values for  $\Delta_{CP}=0$  or  $\pi$ , i.e. No CP violation!"
- (2) Is Leptogenesis a better argument for double beta decay experiments (majorana  $\nu$  dirac) than for CP violation in neutrino oscillation?
- (3) The underground science, proton decay, supernova neutrinos and atmospheric neutrinos, are important additions to the science program of the LBL Neutrino Experiments. How far should we push the case for this physics, compared to that of neutrino oscillation physics?