

International Symposium on Opportunities in Underground Physics
AGENDA (version 3.6, 30 Apr 2013)

Friday, May 24

17:30-19:00 Reception and Registration
19:00-20:00 Dinner

Saturday, May 25

08:50-09:00 Welcome
Introduction to Day 1:
09:00-09:30 Unification and the Need for a Large Underground Detector ([Ramond](#))

Session 1: New Large Detectors

09:30-10:00 Hyper-Kamiokande ([H.-K.Tanaka](#))
10:00-10:30 INO ([N.Mondal](#))

10:30-10:50 coffee break

10:30-11:00 Status of LAGUNA/LBNO ([A. Rubbia](#))
11:00-11:30 LBNE ([M.Diwan](#))

11:40-13:20 Lunch

Session 2: Underground Physics I: Proton Decay

13:20-13:50 Predictions of GUT Models & Need for Large Underground Detector ([Babu](#))
13:50-14:20 String/Orbifold GUT Predictions for Proton Decay ([Raby](#))
14:20-14:50 Proton decay in SUSY GUT in light of LHC ([Nath](#))
14:50-15:20 Future Experiments for Proton Decay ([Kearns](#))

15:20-15:50 coffee break

Session 3: Underground Physics II: Supernovae

15:50-16:20 Astrophysics of SN collapse ([Raffelt](#))
16:30-17:00 Simulations of Core Collapse ([TBD](#))
17:00-17:30 Overview of Existing SN Experiment Sensitivity ([Cavanna](#))
17:30-18:00 Fundamental Physics and Core Collapse SN ([Fuller](#))

18:30-19:30 Dinner

Sunday, May 26

Session 4: Neutrino Mass, Mixing, and CPV I

08:30-09:15 Perspectives on Neutrino Physics ([Langacker](#))
09:15-09:45 GUT Predictions for Neutrino Masses, Mixing Angles, and CP Violation ([M-C.Chen](#))
09:45-10:15 Atmospheric Neutrinos ([Maltoni](#))

10:15-10:35 Coffee Break

- 10:35-11:05 Current Results Overview (T2K/MINOS/OPERA) (H.Tanaka)
 11:05-11:35 Current results Overview (DC/RENO/DB) (Lindner)
 11:35-12:00 Hyper-Kamiokande Beam Neutrino Sensitivity (Ikeda)
- 12:00-13:20 Lunch
- 13:20-13:45 LBNE Beam Neutrino Sensitivity (Bishai)
 13:45-14:10 Future Reactor Experiment Experiments Sensitivity (Wen)

Session 5: Underground Physics III

- 14:10-14:35 Atmospheric Neutrino Results in SK and Prospects for HK (Walter)
 14:35-15:00 Potential for Atmospheric Neutrinos in LAr Detectors (Blake)
 15:00-15:25 Status of ICARUS (Guglielmi)
- 15:25-15:45 Coffee break
- 15:45-16:15 Synergy: Lepton Flavor Physics and Underground Physics (de Gouvea)

Session 6: Operating Large Underground Detectors

- 16:15-16:45 Status of ICE CUBE (Sullivan)
 16:45-17:10 Status of SNO+ (Klein)
 17:10-17:35 Status of KamLAND-Zen (Inoue)
 17:35-18:00 Status of DAEDALUS (Winslow)
- 18:30-19:30 Dinner

Monday, May 27

Session 7: Opportunities for the Future Program in the U.S.

- 08:30-08:55 A Larger, Underground Far Detector (J.Strait)
 08:55-09:20 Science with Future Facilities at Fermilab (R.Tschirhart)
- 09:20-09:50 coffee break

Session 8: Coffee Table Discussion (panel would be lab directors/senior reps and prominent theorists)

- 09:50-11:30 Round Table Panel Discussion and Q&A
 J.Hewett (SLAC)
 A.Masiero (INFN)
 M.Nessi (CERN)
 P.Oddone (FNAL)
 Y.Okada (KEK)
 J.Pati (SLAC)
 N.Roe (LBNL)
 H.Sobel (UC Irvine)
- 11:30-12:00 **Wrap Up Words of Wisdom** - (Kayser)
 12:15-13:15 Lunch