

First Bulletin

International Workshop on Next Generation Nucleon Decay and Neutrino Detectors (NNN15) and Unification Day 2 Workshop (UD2)

Stony Brook University
October 28-31, 2015

The International Workshop on Next Generation Nucleon Decay and Neutrino Detectors (NNN15) will be held at Stony Brook University on October 28, 2015 through October 31, 2015. The first day of the workshop will be dedicated to Unification Day 2 (UD2). The Workshop will be held in the Simons Center for Geometry and Physics (SCGP) auditorium on the Stony Brook University west campus. The Workshop is co-hosted by Brookhaven National Laboratory, Stony Brook University and SCGP.

The NNN series of workshops have been providing the international community a forum for in-depth discussions on large-scale NNN detectors since its inaugural workshop in 1999 at Stony Brook. This year the workshop returns to Stony Brook after 16 years.

The main physics topics of Workshop include: Discovery of proton decay, discovery of CP violation in the lepton sector, determination of the neutrino mass hierarchy and observation of neutrinos from core collapse supernovae.

Following the successful format of previous NNN workshops, NNN15 will have invited plenary talks as well as a small number of contributed talks. In addition to the plenary sessions, there will be a poster session as well as parallel sessions addressing detector R&D, NNN physics, unification theory, and beams for NNN detectors.

The “Unification Day 1” workshop was held at Keystone, Colorado in 2004. The workshop was organized under the theme to bring together a group of theorists to discuss roles of proton decays and CP violation in the lepton sector in various 'unification' theories and leptogenesis models, and discuss the details on our updated understanding on M_{GUT} .

Unification Day 2 will preserve the spirit of the Unification Day 1. In particular it would emphasize the updated views at the interface of grand unification, string theory and extra dimensions, which have evolved over the last decade both due to progress in our theoretical understanding and due to experimental discoveries of the Higgs boson, θ_{13} and ν_e appearance as well as searches for supersymmetry at the LHC.

Graduate students and postdocs are strongly encouraged to attend the workshop. Funds are available from the workshop sponsors to provide partial support to participants.

Details of the workshop program, registration, accommodations, financial support, etc. will be provided in the 2nd Bulletin.

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