

Istituto Nazionale di Fisica Nucleare Sezione di Padova



Seminar Wednesday, March 20th – 11:00

Room – Aula C (Dpt. of Physics and Astronomy)

Zoom Link:

https://unipd.zoom.us/j/3825280306 https://agenda.infn.it/event/40149/

Next Generation Long Baseline Neutrino Experiments

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Abstract

A new generation of long-baseline neutrino experiments is in an advanced state of preparation. They are DUNE in the States, JUNO in China and Hyper-Kamiokande in Japan. The main goals of these experiments are the search for leptonic CP violation, the determination of the pattern of neutrino masses, and precision measurements of the parameters of neutrino oscillations. The far detectors will be powerful observatories for low-energy neutrino astronomy. They will test the stability of the matter and search for dark matter annihilations through neutrinos with unprecedented sensitivity. Particular attention will be devoted to the Hyper-Kamiokande experiment.

Organized by Gruppo II – Sezione di Padova (Mauro Mezzetto – Andrea Longhin) https://www.pd.infn.it/it/gruppo-2/