



**Seminar, Department of Physical Sciences,
Bose Institute, Kolkata**

LongBaseline Neutrino Experiments

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Abstract: Neutrinos are the most abundant particles in the universe after photons, and yet very intriguing and elusive in nature. Long-baseline neutrino experiments, being equipped with intense beams of neutrinos and planned baselengths, have been the most promising arena for understanding the changing flavors of neutrinos as they travel. Different experiments, with their unique detection strategies are endeavoring to detect and study these neutrinos. Determination of the ordering of the neutrino mass hierarchy and the charge-parity violation through neutrino oscillations are among the most imminent objectives. A brief overview of such ongoing and/or upcoming neutrino experiments will be discussed in this talk.

Date/time: January 08, 2025 (Wednesday) at 03:00 PM

Venue: Room 204, Physics Seminar Room, (Second floor, UAC, BI)