IOP 2014 Joint HEPP & APP Group Meeting



Contribution ID: 111

Type: contributed talk

Near Detector Simulations in LAGUNA-LBNO

Tuesday 8 April 2014 17:30 (15 minutes)

LAGUNA-LBNO (Large Appartus studying Grand Unification and Neutrino Astrophysics for Long Baseline Neutrino Oscillations) is a feasibility study with the intent to host next generation neutrino detectors. These experiments possess the ability to probe the universe further with proposed detectors of the 100 kton scale. A basic overview of the long baseline experiment is presented with the focus on the Near Detector design. Monte Carlo

simulations form the basis of the study. A high pressure gas Argon TPC design is implemented and its capabilities are presented with neutrino energy reconstruction techniques employed.

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Session Classification: Parallel 2E

Track Classification: The Neutrino Sector