

New physics and long-baseline neutrino oscillation experiments



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I will discuss the physics potential of the Deep Underground Neutrino Experiment (DUNE) to test for new physics in neutrino oscillations. Its very long-baseline, low systematics, and high statistics will make DUNE an ideal benchmark to test for non-standard interactions affecting neutrinos as they propagate through matter. If such interactions are indeed present in Nature, interesting degeneracies between standard and non-standard oscillation parameters could take place.

Tuesday

October 25

4:00 P.M.

Rm 415 NSH