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Probing Neutrino Oscillations at Long Baselines LISA KOERNER, Univ of Houston

Long-baseline experiments have played an important role in our understanding of neutrino mixing and oscillations. Current long-baseline neutrino oscillation experiments have observed electron neutrino appearance and made precision measurements of the parameters governing muon neutrino disappearance. In this talk, I will give an overview of the long-baseline concept, results from currently-running experiments, and prospects for next-generation experiments. I will discuss what these experiments can contribute to answering some of the remaining questions in neutrino oscillation physics, including (1) Is CP violated in neutrino oscillations? (2) What is the ordering of the neutrino masses? and (3) Is there maximal mixing?