SES16-2016-000247

Abstract for an Invited Paper
for the SES16 Meeting of
the American Physical Society

THOMAS KUTTER, LSU

Long-baseline neutrino experiments employ accelerators to produce neutrino beams and a combination of near and far detectors to measure fundamental neutrino properties and symmetries in nature. The experiments measure the disappearance of beam neutrinos of one flavor and the appearance of neutrinos of another flavor and thereby provide information on neutrino oscillation parameters. A comparison of neutrino and anti-neutrino oscillations allows to search for charge-parity (CP) violation. I will present an overview of past, present and future projects, describe key design features and highlight recent results before concluding with an outlook on the measurement prospects of the next generation of neutrino long-baseline experiments.