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Status and Prospects of the DUNE and JUNO Experiments

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DUNE and JUNO are two leading next-generation neutrino experiments that will address some of the most important open questions in neutrino physics. DUNE is a long baseline experiment consisting of two detectors placed in what will be the world's most intense neutrino beam: a near detector in Fermilab near the beam source, and a much larger far detector at the Sanford Underground Research Laboratory in South Dakota, 1300 km downstream. JUNO is an unprecedentedly large liquid scintillator detector placed at a baseline of 52.5 km from eight nuclear reactors in China. The physics goals of both experiments include making cutting-edge measurements of neutrino oscillations with unprecedented precision, studying astrophysical neutrinos, and searching for physics beyond the Standard Model such as a positive signal for nucleon decay. This talk will report the status and physics prospects of both experiments.

Scientific topic

Future Facilities

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