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Status of the Long-Baseline Neutrino Experiment LBNE

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LBNE is an experiment being designed to probe the parameters of neutrino mixing accessible through nu_mu to nu_e oscillation measurements at the atmospheric L/E scale. It will consist of a new neutrino beam line and Near Detector complex at Fermilab, and one or more very large Far Detector modules, nominally to be sited underground in the Homestake Mine in South Dakota. In addition to the long-baseline neutrino program, the Far Detector system will enable a variety of other physics studies with unprecedented sensitivity, including searches for nucleon decay and supernova neutrino bursts. We will report on the status of the conceptual design for the experiment, now being finalized in preparation for DOE's CD-1 milestone.

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