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Cosmogenic background study for the Long-Baseline Neutrino Experiment

Cosmogenic background for a 10 kton liquid Argon time projection chamber (LAr-TPC) surface detector for LBNE is simulated. It is found that through the use of effective cuts a detector would be able to observe neutrino oscillation. The effectiveness of these cuts is hoped to be shown through analysis of a 35 ton prototype that takes data in early 2015.

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