

Simulating GeV particles in a very large liquid scintillator detector

Large liquid scintillation detectors could be an alternative to water Cherenkov and liquid Argon detectors for high energy neutrino measurements, in the GeV energy range, suitable for both cosmic ray studies and a long baseline neutrino experiment. We demonstrate the ability of a 100 kton detector to distinguish the lepton flavor, discuss sensitivity to pions, and show a track finder. The research has been supported under DOE Grant #DE-FG02-97ER41020.

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