

Applications of Water-based Liquid Scintillator in the T2K Near Detector

Saturday 31 January 2015 10:15 (20 minutes)

A fine-grained, water-based liquid scintillator detector to replace the current passive water + plastic scintillator target in FGD2 in the T2K ND280 tracker system would allow the direct tracking of low energy hadrons emitted by neutrino interactions on oxygen. We are currently building a 1-cell prototype using the WbLS developed at BNL to test for light output.

Length (min.) request (including discussion time)

18 minutes (15+3)

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