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## Deployment of Water-based Liquid Scintillator in ANNIE

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The Accelerator Neutrino-Neutron Interaction Experiment (ANNIE) is a 26-ton water Cherenkov neutrino detector on the Booster Neutrino Beam (BNB) at Fermilab. Among its primary physics goals is the measurement of the final-state neutron multiplicity of neutrino interactions, as well as the measurement of the charged current cross section of muon-neutrinos.

Another main goal of ANNIE is the investigation and development of new detector technologies, such as Water-based Liquid Scintillator (WbLS). WbLS is a novel detector medium which aims to provide a hybrid neutrino detection signal, combining the advantages of both Cherenkov and scintillator detectors. This poster summarizes the recent, first deployment of a 366l WbLS target vessel inside ANNIE, as well as an outlook on the currently ongoing second deployment of the same vessel.

Summary

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