

Future prospects for CAPTAIN experiment

The CAPTAIN (Cryogenic Apparatus for Precision tests of Argon Interactions with Neutrinos) experiment is a five-ton liquid argon time projection chamber (LArTPC) at Los Alamos National Laboratory. CAPTAIN is designed to make measurements of liquid argon interactions relevant to neutrino physics in particular for the proposed Deep Underground Neutrino Experiment (DUNE). A prototype detector called Mini-CAPTAIN, with 400 kg of liquid argon, collected data at a neutron beam at LANL in the summer of 2017. We present plans for the future of the CAPTAIN experiment to take data at other neutrino sources and measure low-energy neutrino interactions on argon.

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