

SoLAr

Wednesday, May 11, 2022 4:45 PM (20 minutes)

SoLAr is a new concept for a liquid argon neutrino detector technology which aims to extend the sensitivities of these devices to the MeV energy range, extending the physics reach of these next-generation detectors to include solar neutrinos. The SoLAr technology will be based on the concept of monolithic light-charge pixel-based readout which addresses the main requirements for such a detector: a low energy threshold with excellent energy resolution and background rejection through pulse-shape discrimination. The SoLAr concept is timely as a possible technology choice for the DUNE “Module of Opportunity” which could serve as a next-generation multi-purpose observatory for neutrinos from the MeV to the GeV range. Presented here are the first studies, status and plans for SoLAr.

Presenter: MCCONKEY, Nicola (University of Manchester)

Session Classification: DUNE Module of Opportunity - Parallel

Track Classification: DUNE Module of Opportunity