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## Precision CEvNS measurements with liquid argon scintillators for COHERENT

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The COHERENT collaboration has deployed a suite of low-threshold detectors in a low-background corridor of the ORNL Spallation Neutron Source to measure coherent elastic neutrino nucleus scattering (CEvNS) on an array of nuclear targets employing different technologies. This has produced CEvNS cross section measurements with CsI and liquid argon scintillator detectors. These measurements confirm the  $N^2$ -dependence predicted by the Standard Model and have enabled searches for non-standard interactions and accelerator-produced dark matter. We aim to construct and deploy a ton-scale liquid argon detector to provide precision measurements of the CEvNS cross section, improve our search for dark matter, and investigate charged-current interactions in argon. In this talk, we will present an overview of the COHERENT experiment with a focus on our liquid argon program.

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