

First Measurement of CEvNS on a Liquid Argon Target from the COHERENT Collaboration

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As part of the effort to observe and measure the cross-section of the CEvNS interaction, a single-phase liquid argon detector, COH-Ar-10, was deployed to the SNS in Fall 2016 by the COHERENT Collaboration. The 24kg fiducial volume target recently made the first low-N measurement of CEvNS in Spring 2020. The data used to make this measurement encompassed a year and a half of operation between mid-2017 and early 2019, a total of 6.12GWhr total integrated beam power. This poster will detail the recent COH-Ar-10 result as well as ongoing and future work.

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