## Abstract Submitted for the APR18 Meeting of The American Physical Society

Status of CEvNS Search with the CENNS-10 Liquid Argon Detecor for COHERENT MATTHEW HEATH, Indiana Univ - Bloomington, COHERENT COLLABORATION — The COHERENT experiment at the Spallation Neutron Source at Oak Ridge National Lab recently observed Coherent Elastic Neutrino Nucleus Scattering (CEvNS) at the  $6.7\sigma$  level with 14 kg of CsI commissioned in June 2015. COHERENT is intending to measure CEvNS on multiple nuclei to verify the  $N^2$  dependence of the CEvNS cross section. To that end, the roughly 30 kg single phase liquid argon detector CENNS-10 was commissioned in December 2016. CENNS-10 will provide a much lighter nucleus for CEvNS scattering. In this talk I will present initial results of the 'Phase 1' liquid argon run covering Dec. 2016 - May 2017 as well as a first look at 'Phase 2' data after an upgrade to improve the light collection efficiency was performed and additional shielding installed in Summer 2017.

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