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COHERENT: Latest Results and Future Prospects

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COHERENT is a suite of neutrino detectors located in a basement hallway of the Spallation Neutron Source at Oak Ridge National Laboratory, where there is an intense pulsed flux of neutrinos from stopped pion decay. In 2017, COHERENT made the first observation of coherent elastic neutrino nucleus scattering (CEvNS), in a 14 kg cesium iodide (CsI) detector. Since then, we have improved our measurement on CsI and added CEvNS measurements on argon and germanium. In addition to CEvNS measurements we have made electron neutrino charged current measurements on lead and sodium, with more charged current searches underway. This talk will discuss the latest results and future prospects of the COHERENT Collaboration.

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