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## **CONUS experiment: new results and the upgrade campaign to CONUS+**

*Wednesday, July 5, 2023 4:35 PM (25 minutes)*

The CONUS experiment (COherent elastic NeUtrino nucleus Scattering) is searching for coherent elastic neutrino-nucleus scattering (CevNS) with germanium detectors in Brokdorf Nuclear Power Plant (KBR, Germany). Four 1kg modules are placed 17m near the 3.9GW reactor core, monitoring an energy regime down to sub-keV with a background rate of  $\sim 10$  per day per keV. In late 2022 the data taking was finished after reactor shut down and an additional period of background measurement. The collaboration is now constructing its successor experiment, CONUS+, which is relocated in Leibstadt Nuclear Power Plant (KKL) in Switzerland. In this talk, I will present the preliminary result from the final data set of CONUS, along with the proceedings of CONUS+ upgrade and its physics potential.

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