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Recent Results of the Coherent-CAPTAIN Mills Experiment

Saturday, 9 July 2022 15:00 (15 minutes)

Coherent CAPTAIN-Mills (CCM) is a 10 ton liquid argon scintillation detector located at Los Alamos National Lab. The prototype detector CCM120 was fabricated in 2017, which utilized 120 PMTs, and now the upgraded detector CCM200, with 200 PMTs, has collected data in the 2021 run cycle. The physics program of CCM comprises searches for new particles in the weak sector, including Dark Photons, Axion-like Particles (ALPs), and neutral heavy leptons in the keV to MeV mass range, extending the coverage of open parameter space for these searches at the order of magnitude level.

In-person participation

Yes

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