

Physics Opportunities of Coherent Scattering

Thursday, October 27, 2022 9:00 AM (20 minutes)

Since the first discovery of coherent elastic neutrino-nucleus scattering (CEvNS) events, a lot of experiments are operational or projected for precision measurements of CEvNS. Such experiments typically feature low energy and high intensity of particles including neutrinos, while their detectors feature low threshold and proximity to their source points. Therefore, they are expected to provide unique opportunities for various physics cases including not only standard model parameter measurements but new physics searches. In this talk, I will briefly survey and discuss phenomenology and future prospects of various physics cases available in the CEvNS experiments.

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