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Directional CEvNS Detection for Reactor Monitoring

Neutrinos have long garnered interest as a tool for reactor monitoring, generally by inverse beta decay. However, the recent first measurement of coherent elastic neutrino nucleus scattering (CEvNS) by the COHERENT collaboration has opened up a new measurement channel with a larger cross section than inverse beta decay, though copious cosmic neutrino backgrounds make measurements impossible beyond a few kilometers with existing technologies. I discuss a recent proposal to circumvent this problem with a directionally sensitive CEvNS detector.

Mini-abstract

Directional CEvNS detectors may be a useful tool for reactor monitoring.

Experiment/Collaboration

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