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Solar Neutrino Nucleus Coherent Scattering at Direct Dark Matter Detectors

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Direct dark matter detectors can be sensitive to detection of solar neutrinos through the CEvNS process at low thresholds. We analyse the possibility of detecting radiative correction to the tree level cross-sections at the dark matter detectors. Utilizing neutrino flavour oscillation of solar neutrinos as a source of flavour dependent flux, we explore the likelihood of detecting radiative corrections at percent level which make the neutrino nucleus interaction flavour-dependent.

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