

Physics reach of a Scintillating Bubble Chamber in CEvNS and its interplay with DM direct searches for extra vector mediators

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We will discuss the physics reach of a low threshold (100 eV) scintillating argon bubble chamber sensitive to Coherent Elastic neutrino-Nucleus Scattering (CEvNS) from reactor neutrinos. We will focus on the sensitivity for a light Z' gauge boson mediator, and also review the complementarity of such experiment with DM direct detection experiments when the DM interacts with the light mediator.

Reference to paper (DOI or arXiv)

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