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## Can $CE\nu NS$ experiments probe Dirac vs Majorana nature of neutrinos?

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Coherent Elastic Neutrino Nucleus Scattering ( $CE\nu NS$ ) provide a novel window to probe new physics connected with the well established non-vanishing neutrino masses. In this talk we will discuss how in the presence of a transition magnetic moment of neutrinos the  $CE\nu NS$  experiments have the potential to shed light on the nature of neutrinos: Dirac vs Majorana. In particular, we will take the NUCLEUS experiment as an example to demonstrate that through a study of differential energy distribution of the final states the  $CE\nu NS$  experiments can potentially achieve such a feat.

**Primary authors:** HATI, Chandan (Technische Universität München, James-Franck-Straße 1, D-85748 ); DEPPISCH, Frank (University College London); HARZ, Julia (Technical University of Munich (TUM)); FRIDELL, Kare (Technical University of Munich (TUM)); BOLTON, Patrick (University College London); KULKARNI, Suchita (University of Graz)

**Presenter:** HATI, Chandan (Technische Universität München, James-Franck-Straße 1, D-85748 )

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