

Exploring the Majorana nature of the neutrino using innovative imaging xenon detectors

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Neutrinos may be Majorana particles, identical to their own antiparticles. To demonstrate it may need a new generation of ultra-low-background, high-mass experiments. In this talk I will explore some new ideas for xenon based detectors, in particular a high pressure xenon TPC capable of reconstructing the full event topology in 3D, a feature that may result in an unprecedented sensitivity.