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Unraveling Dark Matter and neutrino mysteries with a scotogenic approach

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We present a study of a scotogenic model addressing the dark matter problem while generating three non-zero neutrino masses. We investigate the dual nature of a dark matter candidate emerging from distinct particle components across diverse energy regimes within the energy range of HL-LHC. Results highlight the behavior of the dark matter candidate in varied energy contexts, with a focus on correlations with neutrino masses. Furthermore, we will pay attention to experimental constraints, particularly from lepton flavor violating observables, delivering a comprehensive overview of the model's implications for advancing our understanding of fundamental particles.

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