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TeV Dark Matter in radiative seesaw/scotogenic models

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Dark Matter and neutrinos are one of the most puzzling components of the Universe. Generation of Neutrino masses can be obtained via radiative processes where Dark Matter particles are involved. Such models are known as Scotogenic DM models. The Dark Matter candidate in these models are stable thanks to the same symmetry that protect the radiative process. We present a realization of the scotogenic model using as inspiration model the Type-II seesaw. We show the model has a good DM candidate at the TeV scale and its phenomenology can be tested by CTA and Darwin.

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