MOCa 2021: Materia Oscura en Colombia



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Similarities between visible and dark matter?

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The similarity in the energy density between ordinary and dark matter is a curious observational fact. Perhaps they are more similar that we thought, related by a symmetry, which is slightly broken. We will explore such a possibility in the context of mirror world. In this context, we will discuss the Dirac and quasi-Dirac seesaw mechanism which explain the light neutrino mass and the simultaneous generation of visible and dark matter asymmetry. A interesting question is how these models can be verified experimentally.

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