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A holistic view of pseudo-Dirac dark matter

Friday, 17 February 2023 08:45 (30 minutes)

I will give an overview of pseudo-Dirac dark matter, a scenario where a small Majorana mass splits charged Dirac dark matter into two nearly degenerate states. A longtime favourite of model-builders, this dark matter candidate has a rich phenomenology that still has yet to be fully characterized. I will discuss a few mechanisms for producing this kind of dark matter in the early universe, and will show various ways in which this candidate will manifest itself in the subsequent cosmology, astrophysical systems, and terrestrial experiments.

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