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Type: **Invited Speaker / Conférencier(ère) invité(e)**

(I) A holistic view of pseudo-Dirac dark matter

Tuesday 20 June 2023 11:45 (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.

Keyword-1

dark matter

Keyword-2

astroparticle physics

Keyword-3

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Session Classification: (DTP) T2-4 Hot Topics From Theory Made Accessible | Sujets chauds de la théorie rendus accessibles (DPT)

Track Classification: Symposia Day (Tues. June 20) / Journée de symposiums (mardi, le 20 juin): Symposia Day (DTP - DPT) - Hot Topics From Theory Made Accessible | Les sujets chauds de la théorie rendus accessibles