TeV Particle Astrophysics 2017 (TeVPA 2017)



Contribution ID: 268

Type: Oral

Strongly Interacting Dark Matter at Fixed-Target Experiments

Friday 11 August 2017 14:15 (15 minutes)

One interesting class of models involves dark matter as the lightest state of a strongly interacting hidden sector, similar to the pions of QCD. In this talk, I will examine the possibility that the lightest vector resonances of the hidden sector are nearby in mass and accessible within the current operating energy of fixed-target experiments. These states significantly modify processes in the early universe and give rise to striking signals at low-energy accelerators, involving missing energy and displaced pairs of leptons.

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Session Classification: Particle physics

Track Classification: Particle physics (energy frontier, intensity/precision frontier, other theory)