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Dynamically constrained model of Galactic subhalos and impact on dark matter searches

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It is known that cold dark matter candidates lead to the structuring of matter on scales much smaller than typical galaxies. This clustering translates into a very large population of subhalos in galaxies, which must impact predictions for indirect searches of annihilating dark matter. I present a model (arXiv:1610:02233) consistently describing the subhalo population in a dynamically constrained Galaxy. I will show application of this model to indirect searches of dark matter via antiprotons cosmic-rays using the latest data from AMS-02.

Primary authors: Mr STREF, Martin (Montpellier University); LAVALLE, Julien (LUPM (CNRS / Univ. Montpellier II))

Presenter: Mr STREF, Martin (Montpellier University)

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