Progress on Old and New Themes in cosmology (PONT) 2017



Contribution ID: 84 Type: not specified

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

Thursday 27 April 2017 15:15 (15 minutes)

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. Mont-

pellier II))

Presenter: Mr STREF, Martin (Montpellier University)

Session Classification: Afternoon session