



Contribution ID: 309

Type: **not specified**

Can AMS-02 discriminate the origin of an anti-proton signal?

Friday, June 27, 2014 3:25 PM (15 minutes)

Indirect searches can be used to test dark matter models against expected signals in various channels, in particular antiprotons. With antiproton data available soon at higher and higher energies, it is important to test the dark matter hypothesis against alternative astrophysical sources, {it e.g. } secondaries accelerated in supernova remnants.

We investigate the degeneracy of the two signals from different dark models and different supernova remnant parameters as forecasted for the AMS-02 and show that the two signals may not be disentangled.

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Session Classification: Particle Physics