

1st cosmic ray antideuteron workshop

Contribution ID: 9

Type: **not specified**

Dark matter searches with cosmic antihelium

Thursday, June 5, 2014 4:30 PM (30 minutes)

Galactic dark matter annihilations (or decay) can produce cosmic-ray anti-nuclei via the nuclear coalescence of the anti-protons and anti-neutrons originated directly from the annihilation process. Since anti-deuterons have been shown to offer a distinctive dark matter signal, with potentially good prospects for detection in large portions of the dark matter particle parameter space, we explore here the production of heavier anti-nuclei, specifically anti-helium as an additional channel of exploration.

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