

1st cosmic ray antideuteron workshop

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The GAPS Experiment for Indirect Dark Matter Detection

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There are many current searches for WIMP dark matter: direct, production, and indirect. The combination of all three offer a large amount of complementarity in probing parameter space. A particularly promising indirect search can be performed by the General Antiparticle Spectrometer (GAPS). A number of very exciting dark matter candidates are predicted to produce an excess of antideuterons in the cosmic rays arriving at Earth. GAPS has unprecedented sensitivity to cosmic ray antideuterons (and very good antiproton sensitivity) in the energy regime of interest (<200 GeV/n).

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