

$\bar{d}14$ 1st cosmic ray antideuteron workshop

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Indirect dark matter detection using cosmic antideuterons - status and prospects

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The search for cosmic antideuterons has been proposed as a promising and clean method to indirectly detect dark matter, due to the very small background flux from spallations expected at the energies relevant to experiments. In this talk I will first present an updated calculation of the background flux, and then discuss the prospects to observe antideuterons from dark matter annihilations or decays in current and future experiments, taking into account the important correlation of the antideuteron flux with the well-measured antiproton-to-proton fraction.

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