

Particle Cosmology after Planck



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**Particle Cosmology
after Planck**

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The Cosmic Ray Antiproton Background for AMS-02

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The AMS-02 experiment is measuring the cosmic ray antiproton flux with high precision. The interpretation of the upcoming data requires a thorough understanding of the secondary antiproton background. Newly available data of the NA49 experiment at CERN will be discussed in order to recalculate the antiproton source term arising from cosmic ray spallations on the interstellar matter. A detailed comparison of our calculation with the existing literature as well as with Monte Carlo based evaluations of the antiproton source term is provided. An updated prediction for the secondary antiproton flux will be given.

Primary author: KAPPL, Rolf (bctp)

Presenter: KAPPL, Rolf (bctp)

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