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## **Dark Matter Searches with AMS-02**

Thursday 21 June 2007 12:30 (15 minutes)

The AMS-02 experiment is a large acceptance magnetic spectrometer to perform high statistics studies of cosmic rays on the International Space Station for more than 3 years. In this contribution, the AMS-02 expected performances in measuring the nuclear cosmic ray fluxes and their isotopic composition will be presented. AMS-02 will allow to test propagation models through the precise measurements of secondary-to-primary ratios as D/p, 3He/4He in the energy range few hundreds MeV to tens of GeV, and B/C, sub-Fe/Fe up to TV. In particular the original measurements of 10Be/9Be will be performed with high accuracy allowing the understanding of the age of the cosmic-ray confinement and constraint models of the size of the galactic halo.

Presenter: CARDANO, Francesco Maria (Università degli studi di Perugia)Session Classification: Parallel Session: Antimatter detection in space