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## **AMS-02: cosmic electron and positron ( $e^+ + e^-$ ) spectrum up to 1 TeV**

*Thursday, October 2, 2014 2:20 PM (20 minutes)*

The AMS-02 spectrometer, on the ISS since 2011, performs highly accurate measurements of cosmic rays up to the TeV region. We review the analysis of the cosmic ( $e^+ + e^-$ ) flux in the energy range between 0.5 GeV and 1 TeV, based on 41 billion events. The high statistics and detector energy resolution allow for a study of the spectral shape of unprecedented quality, thus improving our understanding of the production, acceleration and propagation of cosmic rays. The resulting energy spectrum does not show prominent features.

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