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The AMS-02 experiment on the International Space Station

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In twelve years on the International Space Station, AMS has collected more than 230 billion cosmic rays up to energies of multi-TeV. The precision of the magnetic spectrometer enables us to present data to an accuracy of ~1%. Explicitly, the high energy data on elementary particles (electrons, positrons, antiprotons, and protons) requires new sources of explanation. The data on nuclei and isotopes show characteristic energy dependence not predicted by any theory. The comprehensive AMS data requires a new model of the cosmos. In this contribution I will highlight the latest AMS results.

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