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4. High energy cosmic rays (HE-CR I)

## **AMS and Pamela: spectra and composition of cosmic rays below the knee**

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The origin and properties of the cosmic radiation are one of the most intriguing question in modern astrophysics. The precise measurement of the energy spectra and composition of the cosmic rays provides fundamental insight into these subjects. Several experiments, equipped with state-of-the art detectors, have recently presented new results on the composition and energy spectrum of the charged cosmic radiation with a significant improvement in statistics and systematics respect to existing data. Two satellite-borne experiments, AMS and PAMELA, are in the forefront of this exploration. We will review these experiments and discuss their most recent scientific results.