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Galactic cosmic rays: direct measurements, status and perspectives

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Recent instruments deployed in space or on stratospheric balloons are targeted at the study of a variety of energetic cosmic particles, including protons and nuclei, electrons, antimatter particles, secondary nuclei (including isotopes), ultraheavy nuclei, all complementing gamma-ray studies. Thus a new wealth of data is providing fresh insights on high-energy phenomena in the Galaxy. The instruments are large and deployed for long exposures, providing for an energy reach that permits direct cross-comparisons with ground-based measurements. We briefly review the state of the field, focusing on present and near future efforts.

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