

# Direct Measurements of Cosmic Rays

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Direct measurements of cosmic rays with balloon-borne and space based instruments are used for understanding cosmic ray origin, acceleration and propagation, as well as exploring the supernova acceleration limit and searching for exotic sources such as dark matter. The energy reach of direct measurements is limited by the detector size and exposure time, but incident particles are identified element-by-element with excellent charge resolution. Recent results and their implications will be reviewed. The outlook of future experiments will also be discussed.

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