



Contribution ID: 146

Type: **Oral presentation**

## Galactic cosmic rays: direct measurements, status and perspectives

*Friday, 16 September 2022 09:20 (25 minutes)*

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.

**Primary author:** Prof. COUTU, Stephane (Penn State University)

**Presenter:** Prof. COUTU, Stephane (Penn State University)

**Session Classification:** Cosmic Rays