



Contribution ID: **108**

Type: **Talk**

Space-based cosmic ray experiments: results and perspectives

Friday, 21 October 2016 11:50 (25 minutes)

In the last decade a wealth of direct CR measurements has been performed by space based experiments leading to unexpected results and bringing this field of research in the “precision era” up to the TeV energy scale. New missions have just started their operation, or are close to launch, and will extend of 1-2 decades in energy the study of the CR composition and energy spectra. Current measurements and what can be expected from existing programs will be reviewed in this contributions, as well as the requirements for future missions to further advance in this field.

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Session Classification: The other messengers: Cosmic rays

Track Classification: Other cosmic messengers: cosmic rays