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## Precision Cosmic Ray Physics with Space-born Experiments

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After more than 100 years after their discoveries, cosmic rays have been extensively studied, both with balloon experiments and with ground observatories.

More recently, the possibility of mounting detectors on satellites or on the International Space Station has allowed for a long duration (several years) continuous observation of primary cosmic rays, i.e. before their interaction with the earth atmosphere, thus opening a new regime of precision measurements.

In this review, recent results from major space experiments, as

Pamela, AMS02 and Fermi, as well as next generation experiments proposed for the International Space Station, for standalone satellites or for the yet to come Chinese Space Station, will be presented.

The impact of these experiment on the knowledge of Cosmic Ray propagation will also be discussed.

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