

# 7th Heidelberg International Symposium on High-Energy Gamma-Ray Astronomy

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Type: **Review, Highlight, or Invited talk**

## Galactic Cosmic Rays

*Wednesday, 6 July 2022 09:30 (45 minutes)*

Significant advances have been made in cosmic-ray measurements in recent years, particularly with successful space missions and long-duration balloon flights over Antarctica. The high precision data from these missions over a wide energy range led to surprising discoveries, such as an excess of positrons at high energies and hardening of the elemental spectra. These unexpected spectral features present significant challenges for Galactic cosmic-ray models on their origin, propagation, and acceleration. Recent results and their implications will be presented, and the outlook will be discussed.

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**Session Classification:** Review Talks