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Galactic cosmic-ray physics after AMS-02

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The current generation of cosmic-ray (CR) experiments in the GeV-TeV range has reached an unprecedented level of precision, unveiling fine-details of the energy spectra. The interpretation of these measurements could require a profound revision of the widely accepted paradigm of CR acceleration at galactic sources and/or of their transport through the interstellar environments.

In my talk I will discuss how AMS02 data have severely tested standard approaches to model galactic propagation in terms of scale-free diffusion and advection and I will then highlight a number of hypotheses for the origin of these new features.

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