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Highlights from the last XSCRC2024 workshop

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The last generation of Galactic cosmic-ray experiments (AMS-02, CALET, DAMPE, ISS-CREAM) is providing a wealth of high-precision new data. The interpretation of these data is stimulating a very rich and active debate in the community, with strong discovery and constraining potentials on many topics (dark matter, acceleration and transport of cosmic rays, Galactic sources etc.). However, the consensus in the community is that these interpretations are strongly limited by nuclear cross-section uncertainties.

The XSCRC (Cross-Section for Cosmic Rays at CERN) workshop series aims at bringing together experimentalists, phenomenologists, and theorists from various communities (astroparticle, particle physics, nuclear physics, etc.), to build synergies and provide a detailed road map to close the most urgent gaps in cross-section data, in order to efficiently progress on many open physics cases. In this talk, I will present an overview of the discussions and outcomes of XSCRC2024, held at CERN in Oct. 2024 (<https://indico.cern.ch/event/1377509/>).

Eligibility for "Best presentation for young researcher" or "Best poster for young researcher" prize

Author: MAURIN, David (Centre National de la Recherche Scientifique (FR))

Co-authors: Prof. DONATO, Fiorenza (Torino University); MARIANI, Saverio (CERN)

Presenter: MAURIN, David (Centre National de la Recherche Scientifique (FR))

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