

Vulcano Workshop 2018 - Frontier Objects in Astrophysics and Particle Physics



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Cosmic Rays in the Multimessenger Era

The Cosmic Ray (CR) physics has entered a new era driven by high precision measurements coming from direct detection (especially AMS-02 and PAMELA) as well as gamma-ray observations (Fermi-LAT). In this talk I will focus on how such data impact the understanding of the supernova remnant paradigm for the origin of CRs. In particular I will discuss advancements in the field concerning the three main stages of the CR life: the acceleration process, the escape from the sources and the propagation throughout the Galaxy. I will also comment on the impact that CRs can have in the Galactic dynamics.

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