

Special Issue

Ultra High Energy Cosmic Rays

Message from the Guest Editor

The study of Ultra High Energy Cosmic Rays ($E > 10^{18}$ eV) faces two great challenges: the extreme low fluxes; and our limited understanding of particle interaction properties at such high energies, which limits the interpretation of the observed air showers in terms of the composition of the primary cosmic ray. The composition spectrum of cosmic rays is critical to interpreting the features observed in the energy spectrum and to interpreting the observed anisotropy in their arrival directions.

The Telescope Array has measured an energy spectrum with similar features to the Auger one. However, there are some differences at the highest energies. More statistics are necessary; therefore, the Telescope Array is expanding its collection area, and its collection area will be similar to that of the Pierre Auger Collaboration.

This Special Issue aims to provide a series of reviews of the most recent measurements of the energy spectrum, mass composition spectrum, and arrival direction anisotropies and studies with air shower measurements regarding the validity of current high-energy hadronic interaction models. For more information, please visit: mdpi.com/si/68286.

Guest Editor

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Deadline for manuscript submissions

closed (31 August 2021)



Universe

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 5.2



mdpi.com/si/68286

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About the Journal

Message from the Editor-in-Chief

The multidisciplinary journal *Universe* is aiming to follow and, hopefully, to lead to the largest extent as possible the ever-self renovating threads which weave mathematical theories with our understanding of the magnificent natural world. On behalf of all the distinguished members of the Advisory and Editorial Boards, I extend my welcome to this journal and look forward to hearing from the interested contributors and learning about their valuable research.

Editor-in-Chief

Prof. Dr. Lorenzo Iorio
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