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Cosmic Rays and Dark Matter Detection

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Message from the Guest Editors

After one century of rapid developments, mankind enters a new era of cosmic ray (CR) detection with ground-based and space-based particle detectors. Those measurements are based on the CR direct interactions with detectors. Dark matter (DM) was discovered by Fritz Zwicky and others by studying clusters of galaxies in 1933. After one century of study, we still know little about DM.

DM annihilation or decay may produce extra-elementary CRs, including neutral particles (photons and neutrinos) and charged ones (positrons and antiprotons). Thus, CR is an important way to understand DM.

In this Special Issue, we will collect original works and review articles, related to the experiments and theories on CRs and DM, including instrumentation, advances in data analysis and beyond the standard model theories. We look forward to receiving your valuable contributions.

- cosmic ray
- dark matter
- photons
- neutrino
- axion
- black hole
- WIMP
- astroparticle
- solar modulation
- Cerenkov detectors



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Special Issue



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Message from the Editor-in-Chief

The multidisciplinary *Universe* journal 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 editorial board, I extend my welcome to this new journal and look forward to hearing from the interested contributors and learning about their valuable research.

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