

The origin of UHECR: current status and future of a decades-long puzzle

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Ultra-high-energy cosmic rays (UHECR) are the most energetic known particles of the Universe, being accelerated to energies up to 7 orders of magnitude higher than those achieved in human-made accelerators. Their origins, however, remain an intriguing puzzle even decades after their discovery. In this review, the current status of this puzzle will be presented, discussing the latest measurements from the Pierre Auger Observatory and the Telescope Array experiments as well as the status of different phenomenological approaches to decipher this question.

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Primary author: GUEDES LANG, Rodrigo (E)

Presenter: GUEDES LANG, Rodrigo (E)

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