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Anisotropy search in the Ultra High Energy Cosmic Ray Spectrum in the Northern Hemisphere using the Telescope Array surface detector

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The Telescope Array (TA) experiment is located in the western desert of Utah, USA and observes ultra high energy cosmic rays in the northern hemisphere. In the highest part of the energy region, the cosmic ray energy spectrum shape carries information of the source density distribution. We search for directional differences in the energy spectrum shape. In this study, observed cosmic ray energy distributions are compared between sky areas that contain nearby objects, such as the super-galactic plane, and others that do not.

Collaboration

Telescope Array

Registration number following "ICRC2015-I"

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Author: Dr NONAKA, Toshiyuki (Institute for Cosmic Ray Research, University of Tokyo)

Co-authors: TAKETA, Akimichi (Earthquake Research Institute University of Tokyo); STOKES, Benjamin (University of Utah); IVANOV, Dmitri (University of Utah); KIDO, Eiji (Institute for Cosmic Ray Research, University of Tokyo); SAGAWA, Hiroyuki (Institute for Cosmic Ray Research, University of Tokyo); Prof. MATTHEWS, John (University of Utah); KAWATA, Kazumasa (Institute for Cosmic Ray Research, University of Tokyo); TAKEDA, Masahiro (Institute for Cosmic Ray Research University of Tokyo); FUKUSHIMA, Masaki (Institute for Cosmic Ray Research, University of Tokyo); SAKURAI, Nobuyuki (Nagoya University); CADY, Robert (University of Utah); NAGATAKI, Shigehiro (Advanced Science Institute, RIKEN); OKUDA, Takeshi (Department of Physical Sciences, Ritsumeikan University)

Presenter: Dr NONAKA, Toshiyuki (Institute for Cosmic Ray Research, University of Tokyo)

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