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Energy Spectrum and Mass Composition of Ultra-High Energy Cosmic Rays Measured by the hybrid technique in Telescope Array

Thursday, July 30, 2015 3:30 PM (1 hour)

The energy spectrum and mass composition of Ultra-High Energy Cosmic Rays (UHECRs) measured using a hybrid analysis will be presented. TA consists of three FD stations and 507 SDs. A hybrid analysis reconstructs the position and direction of the air shower more accurately than the monocular FD analysis and measures the longitudinal development and calorimetric energy of the shower precisely. Information of the mass composition of UHECR, X_{\max} , is obtained from the measured longitudinal development. The analysis performance, energy spectrum and mass composition of the UHECR obtained from the TA hybrid mode will be presented.

Collaboration

Telescope Array

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