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Study of UHECR Composition Using Telescope Array's Middle Drum Detector and Surface Array in Hybrid Mode

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The seven year Telescope Array (TA) Middle Drum hybrid composition measurement shows agreement between Ultra-High Energy Cosmic Ray (UHECR) data and a light composition obtained with QGSJetII-03 or QGSJet-01c models. The data are incompatible with a pure iron composition, for all models examined, for energies $\log_{10}(E/\text{eV}) > 18.2$. This is consistent with previous TA results. This analysis is presented using an updated version of the pattern recognition analysis (PRA) technique developed by TA.

Collaboration

Telescope Array

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