

TA Anisotropy Summary

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We present the results of searching for large- and small-scale anisotropy of ultra-high energy cosmic rays (UHECRs) observed for 7 years by the surface detectors of the Telescope Array experiment. The Telescope Array experiment accumulated the largest UHECR data set in the Northern hemisphere. At small angular scales we examine the data for clustering of events and correlations with various classes of astrophysical sources. At large angular scales we published an excess last year – the “hot spot” – at the highest energies by oversampling using a radius of 20 degrees, centered in the constellation Ursa Major. We present the estimation of the statistical significance of this excess using the results of 7 years of observation and show how it manifests itself in various other tests. Finally, we show the result of searching for correlations with the large-scale structures in the nearby Universe.

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