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Anisotropy Results Using the Telescope Array Surface Detector Data DMITRI IVANOV, University of Utah, TELESCOPE ARRAY COLLABORATION — We report on the search for anisotropy of the ultra-high energy cosmic rays using the Telescope Array surface detector data collected in the first 4 years of operation. This presentation consists of two parts. First, we search for the small scale anisotropies at the highest energies using 3 energy threshold values, E>10 EeV, E>40 EeV, and E>57 EeV, where we examine the event autocorrelation function and correlations with the large scale structures. Second, we look for the intermediate and large scale anisotropies around 1 EeV. We present a significance map of cosmic ray arrival directions, a full-sky harmonic analysis in right ascension, and compare the results with the High Resolution Fly's Eye and Akeno Giant Air Shower Array experiments.

Dmitri Ivanov
University of Utah

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