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Search for correlation with the TA events and various classes of objects

The origin of ultra-high energy cosmic rays (UHECRs) is still a mystery in astrophysics. In order to clarify the origin of UHECRs, their arrival directions are of special importance. We searched for correlations between the arrival directions of the UHECR events observed by Telescope Array (TA) with energies greater than 10EeV and the positions of astronomical objects of various classes. The data used in this work is from the first three year observation by the surface detectors of TA. We used several public catalogs from surveys at various wavelengths, including the VC catalog 13th ed., the IRAS PSCz catalog, the Fermi 2FGL catalog, the 2MRS catalog, the Swift-BAT catalog and the 3CRR catalog. The results of the correlation searches and their statistical significances will be discussed.

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