

Abstract Submitted
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Search of EeV Protons of Galactic Origin. DMITRI IVANOV, Univ of Utah, TELESCOPE ARRAY COLLABORATION — Cosmic rays in 1 to 3 EeV range have been shown to have a light, most likely protonic, mass composition. To establish their origin, one can search for anisotropy in their arrival directions: extragalactic protons should be isotropic, but those originating within the Galaxy should be concentrated along the galactic plane, and there should be a shortage of events near the galactic anticenter. Guided by the latest models of the galactic magnetic field, which indicate these effects, we search for the anisotropy in the data collected by the surface detector of the Telescope Array experiment.

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