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HiRes Limits on Point-Like Sources of Cosmic Rays with Energy Above 10ˆ18.5 eV

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Abstract content

Point-like excesses have been alternately claimed and refuted in the direction of Cygnus X-3, BL-Lacertae objects, and others. We conduct a search for point- like deviations from isotropy in the arrival direction of ultra-high energy cosmic rays in the monocular data set collected by the High-Resolution Fly's Eye. We find no evidence for point-like excesses and place a 90% c.l. upper limit of 0.8 hadronic cosmic rays/kmˆ2*yr with energies greater than 10ˆ18.5 eV for the northern hemisphere. We place tighter limits as a function of position in the sky.

If this papers is presented for a collaboration, please specify the collaboration

HiRes Collaboration

Summary

Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 4 (HE part 1), pages 239-242

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