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Search for Intermediate-Scale Anisotropy by the HiRes Experiment

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Abstract content

We have searched for intermediate-scale anisotropy in the data of the HiRes experiment, in particular the monocular data from the HiRes-II detector. These data were collected between December, 1999, and August, 2005. We see a deficit of events near the direction of the galactic anticenter, very close to the location of the deficit seen by AGASA. Because of low exposure in summer months we cannot make a significant test of the excess observed by the AGASA experiment near the galactic center. We will describe the data, the calculation of the expected isotropic distribution, and the statistical significance of the effect.

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

High Resolution Fly's Eye

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 445-448

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