



Contribution ID : 1109

Type : **Poster**

Search for Large-Scale Anisotropy with HiRes Data

Wednesday, 4 July 2007 14:45 (0:00)

Abstract content

The AGASA collaboration has presented results that indicate the presence of large-scale anisotropy in the arrival direction of ultra-high-energy cosmic rays. While this data has been interpreted as an enhancement from the Galactic Center and the Cygnus region and a deficit from the Galactic anti-Center their map indicates a possibly much larger affect. Independent of the AGASA data, the search for anisotropy in the cosmic-ray arrival directions is inherently interesting as it may provide clues to the origins of these particles. In our presentation, we will describe a technique suitable for searching for large-scale anisotropy in the HiRes data. Results are presented for large-scale anisotropy based on the complete HiRes II mono data set, which was chosen because of its larger statistics.

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

HiRes

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 449-450

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Session Classification : Posters 1 + Coffee

Track Classification : HE.1.4.A