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A search for clusters in arrival directions of UHECRs observed by the Yakutsk array

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Abstract content

There are some prerequisites to possible success in searching for small-scale anisotropy of cosmic ray arrival directions at the highest energies. Recent claims of autocorrelations in the data of giant extensive air shower (EAS) arrays and presumable correlations between BL Lacertae and ultra-high energy cosmic rays (UHECRs) incite to sift the Yakutsk array data. Present analysis is based on data recorded between 1974 and 2004, with a total of 1674 showers selected with energies from $5 \cdot 10^{18}$ to 10^{20} eV, zenith angles below 60 degrees and axes within array area.

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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 303-306

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