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Direction of the anisotropy vector of cosmic rays of TeV energies

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Abstract content

We present preliminary results of measuring the direction of the anisotropy vector of cosmic ray intensity. The measurements were made with the Carpet air shower array of the Baksan Neutrino Observatory. The anisotropy vector direction is determined by analyzing the distribution of time delays of the shower signal detected by distant detectors of the array relative to the array's central part. It is demonstrated that the anisotropy vector has the direction $RA \approx 1.5$ h and $DEC \approx 62^\circ$ in the equatorial coordinate system, which corresponds to the position in the galactic plane. The implications of this result and its consistency with some recent measurements are discussed.

If this papers is presented for a collaboration, please specify the 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. 1 (SH), pages 613-616

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