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Are Pulsars as Ultrahigh Energy Cosmic Ray Sources?

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Abstract content

The arrival directions of ultrahigh energy extensive air showers registered at the Yakutsk array are considered. The correlations of maxima in the distribution of arrival directions of showers and doublets with the pulsar coordinates located in the galactic plane are found. It is shown that the correlation of the arrival directions of ultrahigh energy particles with the plane of Virgo cluster is caused by the particles which arrive from the side of pulsars located on the intersection of planes of the Galaxy and the Virgo clusters.

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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 363-366

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