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Limits to the diffuse flux of UHE neutrinos at EeV energies from the Pierre Auger Observatory

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Abstract content

The Pierre Auger Observatory has the capability of detecting ultra-high energy neutrinos by searching for very inclined showers with a significant electromagnetic component. In this work we discuss the discrimination power of the instrument for ultra-high energy neutrinos. Based on the data collected since January 2004 an upper limit to the diffuse flux of neutrinos at EeV energies is presented and systematic uncertainties are discussed.

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

The Pierre Auger 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. 5 (HE part 2), pages 1369-1372

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