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Diffuse high-energy neutrino searches in AMANDA-II and IceCube: results and future prospects

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Abstract content

The AMANDA-II data collected during the period 2000-03 have been analysed in a search for a diffuse flux of high-energy extra-terrestrial neutrinos from the sum of all sources in the universe. With no excess of events seen, an upper limit on an E-2 flux of $E^2 \Phi < 8.8 \times 10^{-8} \text{ GeV cm}^{-2} \text{ s}^{-1} \text{ sr}^{-1}$ was obtained. The astrophysical implications of this bound and of others obtained for specific models will be discussed. The first results from analysis of the IceCube 9 string detector and prospects for the current 22 string detector will be presented.

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

IceCube

Summary

Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olive, 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 1449-1452

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