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Simulated Sensitivity of the ANITA Detector

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Abstract content

The balloon-borne ANITA neutrino telescope completed a successful 35-day flight during the 2006-2007 austral summer. The primary goal of ANITA is to search for evidence of ultra high-energy neutrinos ($E > 10^{19}$ eV) interacting in the Antarctic ice sheets. In this paper, we present preliminary results of the simulated sensitivity of ANITA, incorporating the actual flight path, geographic and vertical temperature dependence of ice, and flight trigger conditions. Results are compared to standard neutrino flux models.

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

ANITA

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 1539-1542

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