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Simulation of ARIANNA Capabilities

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Abstract content

Antarctic Ross Ice Shelf ANtenna Neutrino Array (ARIANNA) is a new concept of a large radio telescope which consists of 10,000 broadband antenna stations located on the surface of the Ross Ice Shelf in Antarctica. Primary goals of ARIANNA are to test the GZK (Greisen-Zatsepin-Kuzmin) neutrino production and to measure the neutrino cross-section near 100 TeV. We present here a Monte Carlo simulation of the ARIANNA system that studies the sensitivity of the detector under various experimental configurations and event reconstruction techniques.

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

ARIANNA 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 1527-1530

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