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Calibrating the Milagro Instrument for Measuring Forbush Decreases

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Abstract content

The Milagro TeV ground-level gamma-ray telescope detects Forbush decreases in several of its data channels. To understand how the instrument responds to Forbush decreases, one must calculate, through simulations, its behavior to a changing galactic cosmic-ray background as that background is modulated by heliospheric activity. To this end, we have been modeling the response of the instrument as a function of the Gleeson and Axford heliospheric electrostatic potential. We will present ongoing progress in modeling the October and November 2003 Forbush decreases using several independent data channels. We will compare the results to the predicted response of the Climax neutron monitor in nearby Colorado.

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

Milagro

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. 1 (SH), pages 355-358

Primary author(s) : Prof. RYAN, James (University of New Hampshire)

Presenter(s) : Prof. RYAN, James (University of New Hampshire)

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