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Testing Transport Theories with Solar Energetic Particles

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Abstract content

Based on numerical solutions of the focused transport equation we study the question whether pitch angle diffusion coefficients calculated from various suggested models for wave-particle interactions and different assumptions about the nature of magnetic fluctuations in the solar wind can lead to measurable differences in observables such as the rigidity dependence of the mean free path and the angular distributions of solar particles.

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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 159-162

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