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Propagation of Cosmic Rays in Anisotropic Diffusion Models

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One aim of cosmic ray measurements is to search for possible signatures of annihilating or decaying dark matter. The excess of positrons measured at the top of the atmosphere has attracted a lot of attention in this context. On the other hand it has been proposed that the data might challenge the established diffusion model for cosmic ray propagation. We investigate a modification of the two-zone diffusion model giving rise to changes in the spectral shape of the positron spectrum.

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