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Addressing the impact of solar modulation systematic uncertainties on cosmic-ray propagation models

While remarkable progress has been made to understand the propagation of cosmic rays, a variety of astrophysical uncertainties persists. At energies below about 20 GeV, the cosmic-ray flux is significantly modulated by solar activity, a process that is not precisely understood. Using the recently published AMS-02 data for the time-dependent cosmic-ray fluxes, we study the effects of solar modulation and derive improved cosmic-ray propagation models.

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