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Investigating the Role of Turbulence in Solar Energetic Particle Transport

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Understanding the mechanisms behind Solar Energetic Particle (SEP) transport in the inner heliosphere aids in the effort to develop accurate and predictive space weather models.

Modelling several sets of observations over different events by the Solar Orbiter, WIND, GOES, and SOHO spacecraft, at a distance between 0.3 - 1.0 AU, provides transport parameters that cannot be measured or observed.

Of these parameters, the results for the mean-free-path of the particle are compared to theoretical estimates. Combining theory, observation, and analytical results provides more insight into future predictive models of SEP intensity.

Apply to be considered for a student ; award (Yes / No)?

Yes

Level for award;(Hons, MSc, PhD, N/A)?

MSc

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