



Contribution ID: 158

Type: **Poster contribution**

Time-dependent modulation of galactic cosmic rays

Tuesday, 4 August 2015 16:00 (1 hour)

The time-dependent modulation of galactic cosmic rays in the heliosphere is studied over different polarity cycles by computing 2.5 GV proton intensities using a two-dimensional, time-dependent modulation model. By incorporating recent theoretical advances in the relevant transport parameters in the model we showed in previous work that this approach gave realistic computed intensities over a solar cycle. New in this work is that a refinement to this approach is proposed that would lead to an increase in compatibility between model results and spacecraft observations.

Collaboration

– not specified –

Registration number following "ICRC2015-I/"

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