



Canadian Association
of Physicists

Association canadienne
des physiciens et physiciennes

Contribution ID: 2023

Type: **Poster (Non-Student) / Affiche (Non-étudiant(e))**

POS-10 Superposed epoch analysis of cosmic noise absorption due to co-rotation interaction regions (CIR)

Tuesday 12 June 2018 18:15 (2 minutes)

In order to adequately understand the effects that energetic particle precipitation bears on radio wave absorption, we have analysed cosmic noise absorption (CNA) measured by the imaging riometer at Kilpisjärvi, Finland (IRIS) during 1996-2011. We analysed periods of co-rotating interaction regions (CIR) occurring as a result of the interaction of high speed solar wind streams emanating from coronal holes. We utilised the superposed epoch analysis method to investigate the absorption signature during these events. We identified periods of maximum CNA enhancement for each of these events and the duration of elevated CNA. Each of these events show differing CNA enhancement periods and elevation thresholds.

Authors: Dr OGUNMODIMU, Olugbenga (National Space Research and Development Agency; Manchester Metropolitan University); FIORI, Robyn (Natural Resources Canada)

Presenter: FIORI, Robyn (Natural Resources Canada)

Session Classification: DASP Poster Session & Finals: Poster Competition & Mingle Session with Industrial Partners (6) /Employers| Session d'affiches DPAA et finales: Concours d'affiches et rencontres avec partenaires industriels et employeurs (6)

Track Classification: Atmospheric and Space Physics / Physique atmosphérique et de l'espace (DASP-DPAE)