

2025 Workshop: RB-SoS (Magnetotail coupling)

Long title

Radiation belts as a system of systems: magnetotail coupling

GEM-only session

Conveners

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Description

Session on how the radiation belts are affected by magnetotail phenomena, such as the impact of substorms or particle injections from the magnetotail on radiation belt activity. This includes the impact on particle dynamics, plasma wave activity and system-wide variation in the radiation belt environment. The session format will be a series of oral presentations and group discussion.

Justification

The objective of the RB-SoS focus group is to evaluate the coupling between the radiation belts and other plasma populations in near-Earth space. A dedicated session soliciting talks related to the coupling between the magnetotail and radiation belts is key to achieving this objective.

Related to CEDAR Science Thrusts:

Encourage and undertake a systems perspective of geospace

Workshop format

Short Presentations

Keywords

radiation belts, magnetotail

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