

Rapid acceleration of relativistic electrons through wave-particle interactions in planetary magnetospheres

Thursday 7 March 2019 15:20 (40 minutes)

Wave-particle interactions play crucial roles in both wave excitation and particle energization processes in planetary magnetospheres. The acceleration mechanism of radiation belt electrons by wave-particle interactions in the terrestrial magnetosphere occurs universally in other magnetized planets. We discuss similarities and differences of the process occurring in the planetary magnetospheres.

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