

# 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.

**Primary author:** Dr KATOH, Yuto (Graduate School of Science, Tohoku University)

**Presenter:** Dr KATOH, Yuto (Graduate School of Science, Tohoku University)