

## れいめい衛星観測によるオーロラのカール・スパイラルと降り込み粒子の関係 Relationship between auroral curl/spiral and particle precipitation: Reimei observation

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One of the most attracted properties of the aurora is its wave-like structures and the various scales of its wave structures are observed, such as an auroral curl or spiral. In this study, we focused on the precipitated particle behaviors when the aurora curl or spirals are observed at its footprint. Statistical analysis, using Reimei observations, shows that the inverted-V structures, low-energy electron dispersion, and plasma sheet electron precipitations are closely associated with the well-developed auroral wave structures.