



Electron observations in the Martian magnetotail

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The fluxes of hot electrons with a temperature exceeding 100eV are observed at the night Martian plasma environment. Simultaneous magnetic field and wave measurements reveals that those fluxes coincide with reversals of Bx-component and bursts of relatively broadband electric noise. Both observations indicate that hot electron population is inherent to plasmashell of Martian magnetic wake. The wave particle interaction and dynamics of plasma in the magnetotail are investigated as possible mechanisms for heating of electrons.

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