



## **Cassini CAPS Electron Plasma Observations in the Saturnian Inner Magnetosphere**

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The Cassini spacecraft is in orbit around Saturn since July 1, 2004. We will take advantage of its coverage of the Saturnian inner magnetosphere to detail electron plasma observations from the Cassini Plasma Spectrometer instrument. We will discuss the structure, dynamics, and time variability of the Saturnian inner magnetospheric regions in terms of radial, latitudinal, and local time variations. We will present maps of derived electron densities and temperatures for selected orbits and relate our findings to observations obtained by the Radio and Plasma Wave Science and Magnetometer instruments.