



Impact of energetic electrons on the Cassini RPWS Langmuir probe at Saturn

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The Cassini Langmuir probe (onboard RPWS experiment) has provided wealth of information about the kronian cold plasma environment since the Saturn Orbit Insertion in 2004. The usage of the Langmuir probe is based on the fitting of the current-voltage curve which brings information on several plasma parameters (mainly density, temperature, floating/spacecraft potential). The ion part of the I-V curve may however be influenced by energetic particles hitting the probe, leading to an enhanced ion current measured. We present here first results of the impact of energetic electrons from the inner magnetosphere of Saturn on the Langmuir probe response.