



The Propagation of Jovian Electrons in the Heliospheric Magnetic Field

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The propagation of energetic particles in the heliosphere is described by the Parker transport equation including the physical processes of diffusion, drift, convection and adiabatic energy changes. For the inner heliosphere the Jovian magnetosphere appears to be the dominant source of energetic electrons. Therefore the so-called Jovian electrons are nearly perfect test particles to study transport theories. In this contribution we present model calculations of the electron flux in Parker- and Fisk-type heliospheric magnetic field configurations and compare our results to spacecraft data.