BIFURCATION OF JOVIAN MAGNETOTAIL CURRENT SHEET

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Multiple crossings of the magnetotail current sheet by a single spaceraft give possibility to distinguish between two types of electric current density distribution: single-peaked (Harris type current layer) and double-peaked (bifurcated current sheet). Magnetic field measurements in Jovian magnetic tail by *Voyager-*2 reveal the bifurcation of tail current sheet. Electric current density possesses minimum at the point of B_x -component reversal and two maxima at the distance where the magnetic field strength reaches 50% of its value in the tail lobe.