



Cassini magnetic field observations of Titan's magnetic tail structure at constant SLT : Ta, Tb, T3

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The first three close Titan encounters (Ta, Tb, T3) occur at almost the same SLT \sim 10.6h, within Saturn's magnetosphere and through the magnetosperic wake of Titan at different latitudes and altitudes. These three encounters provide an interesting opportunity to investigate the structure and formation of Titan's induced magnetic tail also in comparison with Voyager 1 observations. New results on the geometry and the internal structure of the magnetoplasma boundaries and the tail asymmetry due to the strong deviation between the solar direction and the flow direction will be presented. The different dynamical states of the magnetosphere during the flybys will be taken into account.