

Slow-mode Shocks Observed in the Geomagnetic Tail

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Slow-mode shocks in the geomagnetic tail have been reported by many authors. The shocks are considered to be associated with the Petschek-type reconnection in the tail. Most of these shocks are of quasi-perpendicular (with a large shock normal angle, θ_{bn}). There is usually a strong flow in the tangential direction on the downstream side of these shocks. Here we apply a new shock fitting method proposed recently by *Lin et al.* [2006] to reanalyze these reported slow shocks. The result shows that the new method successfully identifies the shocks. We also derive the relation between the large shock normal angle and the strong downstream flow for these shocks.