Ef-019 Room: C311 Time: June 8 15:15-15:30

MHD shocks formation associated with plasmoid

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GEOTAIL shows that plasmoids contain many unidentified structures whether are not included in standard reconnection models. We execute a large-scale 2-D MHD simulation with high time-resolution to show the front-side shock formation (intermediate shock and slow shock) as well as the global structure of plasmoid. In this presentation, we will discuss the formation process of newly identified structures inside the plasmoid including its surface, also comparing with the GEOTAIL data.