

On Triggering of Magnetic Reconnection

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Bimodal approach to the problem of triggering of magnetic reconnection has been performed. One is to utilize full-particle simulations to understand how magnetic reconnection in a thick current sheet, whose half-thickness is more than a few times the relevant ion inertial length, is triggered. The other is to perform high-accuracy MHD simulations to see how an interaction between a MHD flow and a current sheet leads to magnetic reconnection thereof. In this talk, highlights of the results and their implications will be presented.