



Comparing MMS Observations with Theory and Simulation

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MMS completes its first year in orbit on 13 March 2016, and its science data set will by then be open to use by the entire research community, including theorists and simulators. We will briefly summarize observational highlights from the first year of MMS operations to illustrate the unprecedented accuracy and resolution of phenomena that have until now been inaccessible to observation, especially at electron scales. The goal of such observations has always been to test and refine our understanding of reconnection, as embodied in our theoretical and simulation models, with the goal of better predicting the morphology and dynamic evolution of reconnection as a driver of space weather. Toward that end, we summarize the MMS data products and suggest ways for the theory and modeling community to make contact with MMS observations and use them to test their models.