BOSTON UNIVERSITY

Boston University College of Arts & Sciences
Center for Space Physics

2018 - 2019 SPACE PHYSICS SEMINAR SERIES

Magnetotails throughout the Solar System

An important process in planetary magnetospheres is the release of mass and conversion of energy through magnetic reconnection. The mechanism by which magnetic reconnection occurs is a critical diagnostic of the overall behavior of a magnetosphere, and studying the dynamics of different planetary magnetotails can provide insight into fundamental physical processes. In this talk I will present an overview of magnetotail observations made throughout the solar system. I will discuss how the structure and dynamics of each magnetosphere are influenced by planetary features like the magnetic field, rotation, and presence of plasma-producing moons. A major focus of the talk will be Jupiter's magnetotail and the new discoveries being made by NASA's Juno mission.

Thursday, October 11th
4:00 - 5:00 p.m.
725 Commonwealth Avenue | Room 502

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