ABSTRACT FINAL ID: SM53A-02;

TITLE: Observations and Interpretation of Magnetofluid Turbulence at Small Scales (Invited)

SESSION TYPE: Oral

SESSION TITLE: SM53A. Multiscale Turbulence and Stochastic Wave-Particle Interactions in Planetary Magnetospheres II

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Title of Team:

ABSTRACT BODY: High time resolution magnetic field measurements from the four Cluster spacecraft have revealed new features of the properties of magnetofluid turbulence at small spatial scales; perhaps even revealing the approach to the dissipation regime at scales close to the electron inertial length. Various analysis techniques and theoretical ideas have been put forward to account for the properties of those measurements. The talk will describe the current state of observations and theory, and will point out on-going and planned research that will further our understanding of how magnetofluid turbulence dissipates. The observations and theories are directly germane to studies being planned as part of NASA’s forthcoming Magnetospheric Multiscale Mission.


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Additional Details

Previously Presented Material: 25% IPELS

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