

Analysis and Applied Mathematics Seminar

Dissipation wavenumber and regularity for electron magnetohydrodynamics

Chao Wu (University of Illinois Chicago)

Abstract: We consider the electron magnetohydrodynamics (MHD) with static background ion flow. A special situation was studied numerically by physicists. In this paper we show the existence of determining wavenumber for the electron MHD, and establish a regularity condition only on the low modes of the solution.

Monday, October 21 at 4:00 PM in 636 SEO