

Meeting: 1001, Evanston, Illinois, SS 11A, Special Session on Stability Issues in Fluid Dynamics

1001-35-240 **Roman Shvydkoy***, Department of Mathematics, Statistics, & Comp, Chicago, IL 60607-7045.

Geometric optics spectral theory for advective equations.

A geometric optics approach to spectral problems of basic equations of fluid mechanics will be presented. We address structure of the essential spectrum and discuss applications to instability. (Received August 27, 2004)