

1030-35-59

Misha Perepelitsa* (mikhail.perepelitsa@vanderbilt.edu), 1326 Stevenson Center,
Vanderbilt Univ., Nashville, TN 37240. *Boundary behavior of compressible, viscous fluid flows.*

In this talk we will discuss some results on the existence of the weak solutions to the Navier-Stokes equations for the motion of compressible, viscous fluid flows in the half-space with the no-slip boundary condition. The emphasis is made on the boundary behavior of weak solutions with the discontinuous density field. (Received July 12, 2007)