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**Mikhail Perepelitsa\*** ([mikhail.perepelitsa@vanderbilt.edu](mailto:mikhail.perepelitsa@vanderbilt.edu)). *Boundary behavior of compressible, viscous fluid flows with discontinuous density.*

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 component. (Received September 12, 2007)