

1053-35-206

Zhouping Xin* (zpxin@ims.cuhk.edu.hk), Room 701, Academic Building No. 1, The Chinese, University of Hong Kong, Sha Tin, New Territories, Hong Kong, Hong Kong. *Vanishing Viscosity Limit for Navier-Stokes Systems*. Preliminary report.

In this talk, I will discuss some results on the vanishing viscosity limits for incompressible Navier-Stokes systems with various boundary conditions. In particular, we discuss the boundary layer behavior for the Navier-slip boundary conditions with slip length depending on the viscosity coefficient and well-posedness theory for Prandtl's boundary layer systems. Some convergence results will be presented also. (Received September 04, 2009)