1038-35-64   **Michael E. Taylor*** (`met@math.unc.edu`), Mathematics Dept., University of North Carolina, Chapel Hill, NC 27599. *Vanishing viscosity limits of solutions to Navier-Stokes equations.*

The problem of analyzing the vanishing viscosity limit of solutions to the Navier-Stokes equations with no-slip boundary condition is typically hard. The talk will describe recent results on some doable cases: 2D circularly symmetric flows and 3D plane-parallel channel flows. These results are joint work of the speaker and A. Mazzucato, M. Lopes Filho, and H. Nussenzveig Lopes. (Received January 25, 2008)