1030-35-120 **Milton C. Lopes Filho**, UniCamp, Campinas, Brazil, **Anna L. Mazzucato***, Department of Mathematics, Pennsylvania State University, McAllister Building, Universiity Park, PA 16802, **Helena J. Nussenzveig Lopes**, UniCamp, Campinas, Brazil, and **Michael E. Taylor**, UNC-Chapel Hill. *Vanishing viscosity limit in boundary-driven 2D flows.*

We discuss convergence of Navier-Stokes solutions to Euler solutions in the limit of vanishing viscosity and the behavior in the boundary layer for special classes of 2D and almost 2D flows driven by a moving boundary. In particular, we consider planar radial flow in a cylinder and plane parallel flow in a channel. We allow for very rough boundary velocities. (Received July 27, 2007)