

1167-35-9

Sameer Iyer*, Fine Hall, Princeton, NJ 08540, and **Nader Masmoudi**. *Global in x Stability of Prandtl's Boundary Layer for 2D, Stationary Navier-Stokes Flows*.

I will discuss a recent work which proves stability of Prandtl's boundary layer in the vanishing viscosity limit. The result is an asymptotic stability result of the background profile in two senses: asymptotic as the viscosity tends to zero and asymptotic as x (which acts a time variable) goes to infinity. In particular, this confirms the lack of the "boundary layer separation" in certain regimes which have been predicted to be stable. This is joint work w. Nader Masmoudi (Courant Institute, NYU) (Received January 13, 2021)