
In this talk, I will present the following result: let the viscosity $\varepsilon \to 0$ for the 2D, steady Navier-Stokes equations in the region $0 < x < L$ and $0 < y < \infty$, with no-slip boundary condition at $y = 0$. For $0 < L << 1$, we prove the validity of the steady Prandtl layer expansion for scaled Prandtl boundary layers, which include the celebrated Blasius layer. This is joint work with Yan Guo. (Received January 10, 2019)