Abstract

The goal of this talk is to prove that given initial data $u_0=(u_0^\h,u_0^3)\in L^2$ with $\pa_3u_0\in L^2,$ 3-D incompressible Navier-Stokes system has a unique global solution provided that $|D_\h|^{-1}\pa_3u_0$ is sufficiently small in the scaling invariant space $\cB^{0,\f12}.$.