

1154-35-2458

Zhanerke Temirgaliyeva* (temirgal@usc.edu). *On the existence of strong solution to the 3D incompressible Navier-Stokes equations with damping.*

We present a simple proof of the existence of a global unique strong solution to the Cauchy problem of the incompressible Navier-Stokes equations with damping $\alpha|u|^{\beta-1}u$ for any $\alpha > 0$, $\beta > 3$. (Received September 17, 2019)