

1064-35-397

Alexey Cheskidov* (acheskid@math.uic.edu), University of Illinois at Chicago, 322 Science and Engineering Offices, 851 S. Morgan Street, Chicago, IL 60607. *Beale-Kato-Majda type regularity criteria for the 3D Navier-Stokes equations.*

We present a new Beale-Kato-Majda type regularity criterion for the 3D Navier-Stokes equations. This criterion is weaker than every Ladyzhenskaya-Prodi-Serrin condition. (Received September 14, 2010)