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**Alexey Cheskidov\*** ([acheskid@math.uchicago.edu](mailto:acheskid@math.uchicago.edu)), University of Chicago, Department of Mathematics, 5734 S. University Avenue, Chicago, IL 60637. *On the regularity of weak solutions to the 3D Navier-Stokes equations in critical spaces.*

Since the pioneering work of Leray, the problem of regularity of weak solutions to the 3D Navier-Stokes equations has been a subject of serious investigation. We will discuss some recent regularity results in critical Besov spaces. (Received February 12, 2008)