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Alexey Cheskidov* (acheskid@math.uchicago.edu), Department of Mathematics, University of Chicago, 5734 S. University Avenue, Chicago, IL 60637, and **Roman Shvydkoy**, IL. *On the regularity of weak solutions of the 3D Navier-Stokes equations in $B_{\infty,\infty}^{-1}$.*

We will discuss new regularity criteria for weak solutions of the 3D Navier-Stokes equations in the largest critical space. (Received August 07, 2007)