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**Alexey Cheskidov** (acheskid@uic.edu) and **Karen Zaya\*** (kzaya2@uic.edu). *Lower Bounds of Potential Blow-Up Solutions of the Three-dimensional Navier-Stokes Equations in  $\dot{H}^{\frac{3}{2}}$ .*

We improve previous known lower bounds for Sobolev norms of potential blow-up solutions to the three-dimensional Navier-Stokes equations in  $\dot{H}^{\frac{3}{2}}$ . We also present an alternate proof for the lower bound for the  $\dot{H}^{\frac{5}{2}}$  blow-up. (Received September 21, 2015)