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**Zheb Lei** and **Qi S. Zhang\*** ([qizhang@math.ucr.edu](mailto:qizhang@math.ucr.edu)), Math. Dept. UC Riverside, Riverside, CA 92521. *A Liouville theorem for the axially symmetric Navier-Stokes equations with some super-critical conditions.*

We present a Liouville theorem for ancient solutions of the axially symmetric Navier-Stokes equations with some super-critical conditions under the standard scaling. (Received September 25, 2017)