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Zhen Lei, Peoples Rep of China, and **Qi S. Zhang***, Math. Dept., Riverside, CA 92521. *Extra regularity for a linear parabolic equation with drift term.*

Extra regularity for a linear parabolic equation with drift term.

This is a joint work with Lei Zhen. We show that the solution of a linear parabolic equation with drift term has certain modulus of continuity, under a slightly supercritical condition. This equation arises from axially symmetric Navier-Stokes equations. (Received August 11, 2010)