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Ning Ju*, Department of Mathematics, Oklahoma State University, 401 Mathematical Sciences,
Stillwater, OK 74078. *Vorticity and Regularity of Viscous 3D Incompressible Flows.*

In this talk, some recent results of the speaker about the geometrical constraints on vorticity for global regularity of 3D incompressible flows will be presented and discussed. We will focus mainly on the viscous case. (Received August 30, 2005)