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Xinwei Yu* (xinwei2@ualberta.ca), 632 CAB, University of Alberta, Edmonton, Alberta T6G2G1, Canada, and **Chuong V. Tran**, St. Andrews, KY16 9SS, United Kingdom. *Regularity criteria of 3D Navier-Stokes Equations involving the pressure term.*

In this talk we will present some new regularity criteria for the 3D Navier-Stokes equations. This new criteria explore the relation between the pressure and the velocity. We will also discuss possible depletion of nonlinearity due to the negative correlation between $|u|$ and $|\nabla|u||$. This is joint work with Prof. Chuong V. Tran of University of St. Andrews, Scotland. (Received August 10, 2015)