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**Igor Kukavica, Walter Rusin\*** ([walter.rusin@okstate.edu](mailto:walter.rusin@okstate.edu)) and **Nabil Ziane**. *Local regularity conditions for the Navier-Stokes equations.*

In this talk, we address the interior regularity of suitable weak solutions of the 3D incompressible Navier-Stokes equations. We present partial regularity criteria based on only one component of the velocity. Furthermore, the uniform estimate obtained in this criterion allows us to prove a generalization of the Leray regularity condition. Finally, we present a local extension of the  $L_t^\infty L_x^3$  regularity due to Escauriaza-Serëgin-Šverák. (Received September 26, 2017)