1057-35-457   **Joel M Kilty*** (`joel.kilty@centre.edu`), Centre College, 600 W. Walnut Street, Danville, KY 40422.
The L^p Regularity problem for the Stokes system in Lipschitz domains. Preliminary report.

In this talk we'll discuss progress on establishing a necessary and sufficient condition for the solvability of the the L^p regularity problem for the stationary Stokes system when $p > 2$, as well as duality between the L^p Dirichlet and $L^{p'}$ regularity problem for the Stokes system. (Received January 27, 2010)