Meeting: 1003, Atlanta, Georgia, SS 28A, AMS-SIAM Special Session on Reaction Diffusion Equations and Applications, I

1003-35-1649   **W Xie***, Department of Mathematics, Cal Poly Pomona, Pomona, CA 91768. *Mathematical Analysis for a Problem from Stress Driven Diffusion.* Preliminary report.

This talk concerns the study of a system of partial differential equations with mixed types involving stress-driven diffusion. Mathematical analysis will be discussed for this problem and some preliminary results will be presented for a simplified version of the problem. (Received October 05, 2004)