TEXAS ★ STATE

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Differential Equations and Applied Math Seminar

Dr. Ray Treinen, Texas State University

11am-12pm October 21st, 2016

333 Derrick Hall

Title: Sets of finite perimeter for the equilibrium state of three immiscible fluids VI

Abstract: We will continue our study of the equilibrium state of three immiscible fluids using sets of finite perimeter. With a monotonicity formula in hand, we will show that the fluids converge to cones in the blow-up limit. We have established two technical lemmas in the proof. We will complete the proof of convergence to cones. This convergence is only along subsequences, and the uniqueness of the blow-up limit is still an open problem.

Interested faculty and graduate students are encouraged to attend.