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Differential Equations and Applied Math Seminar

Dr. Ray Treinen, Texas State University

11am-12pm October 14th, 2016

333 Derrick Hall

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

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 one of two technical lemmas in the proof. We will prove the second technical lemma and the 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.