Special Math Colloquium

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PhD Princeton University 1998, Postdoctoral experience: Institute of Advanced Study, University of Chicago, and Princeton University

Research interests: Partial Differential Equations, Analysis, Fluid Mechanics, surface quasi-geostrophic equation (SQG), Euler equations, the Muskat problem, magnetohydrodynamics, splash singularities, and capillary jet breakup

Interface Dynamics for Two Incompressible Fluids: Muskat Problem

Abstract/Desc: The Muskat equation governs the motion of an interface separation of two incompressible fluids in a porous media. In this talk I will discuss the local well-posedness, shift of stability, mixing solutions, global existence and finite time singularities for the Muskat problem.

Wednesday, November 9, 2022
3:05 p.m.
101 Love

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Refreshments at 2:30 p.m. in 204B Love