72nd Midwest PDE Seminar Purdue University, November 16–17, 2013

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Sun, Nov 17, 10:00–10:50, MATH 175

Singular interfaces in two dimensional free boundary problems

Abstract. I will talk about some questions that arise in attempting to apply conformal mapping techniques to free boundary problems in 2D electrostatics and fluid flows, especially in describing multi-scale or "nearly singular" interfaces. This is ongoing work in collaboration with Stuart Kent.