

TEMPLE UNIVERSITY

Department of Mathematics

Analysis Seminar

Room 617 Wachman Hall

Monday, September 20 2021, 2:30 p.m.

On some electroconvection models

by Elie Abdo

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Abstract: We consider an electroconvection model describing the evolution of a surface charge density interacting with a 2D fluid. We investigate the model on the two-dimensional torus: we study the existence, uniqueness and regularity of solutions, and we show the existence of a global attractor.