THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

SEMINAR ON PDE

Generation of vortices in the Ginzburg Landau heat flow

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Abstract

In the two-dimensional Ginzburg-Landau heat flow, a configuration with a logarithmic energy bound has well-formed vortices and their motion is well-understood. For an initial condition with a finite number of nondegenerate zeros, but possibly very high energy, we show that the initial zeros are conserved and the flow rapidly enters the logarithmic energy regime. This is joint work with M.Kowalczyk.

Date: 25 April 2024 (Thursday)

Time: 4:00pm

Zoom Meeting: https://hkust.zoom.us/j/98024474585 (Passcode: 367891)

All are Welcome!