

Karlsruher PDE-Seminar

Finite-time blowup for a family of complex Ginzburg-Landau equations

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In this joint work with Flávio Dickstein and Fred B. Weissler, we study the Cauchy problem for a family of nonlinear Ginzburg-Landau equations which depends on a parameter, and includes in particular the nonlinear heat and Schrödinger equations. We prove that negative energy initial values produce solutions that blow up in finite time. Moreover we study how, for a fixed negative energy initial value, the blow-up time depends on the parameter (in the equation).

Termin: Donnerstag, 6. Juni 2013, 17:30 Uhr

Ort: 1C-03, Allianz-Gebäude 05.20

Gastgeber: Die Dozenten des Schwerpunkts Partielle Differentialgleichungen