SHAOHUA CHEN, Cape Breton University

A Singular Gierer-Meinhardt System of Elliptic Equations

In this talk I will present theoretical results on the existence of the steady state solutions to the generalized Gierer-Meinhardt system with zero Dirichlet boundary conditions. I introduce a new functional method to obtain an a priori estimates for the system and then use Leray-Schauder fixed point theorem to prove the existence theorem.