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Dynamics of a Two-Spike Solution to the Gierer–Meinhardt System in Two-Dimensions

In this talk I will discuss a two-spike solution to the Gierer–Meinhardt system posed in two-dimensions. I will construct a differential equation governing the separation of the spikes. I will then show that if the distance between the spikes is below a critical value, one spike will be destroyed. If the distance between the spikes is above this critical distance a Hopf bifurcation may occur as the spikes move apart.