Cornell Dynamical Systems Seminar

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Bifurcation scenarios in a normal form for singular Hopf bifurcation

Singular Hopf bifurcation occurs in generic vector-fields with two slow variables and one fast variable. The phenomena observed are much more intricate than those seen in Hopf bifurcations outside a multiple time-scales context. We present an extensive bifurcation analysis of a normal form for singular Hopf bifurcation, introduced by John Guckenheimer in 2008. This is joint work with John Guckenheimer.

Friday, October 1, 2010, 2:15 pm, in 205 Malott Hall