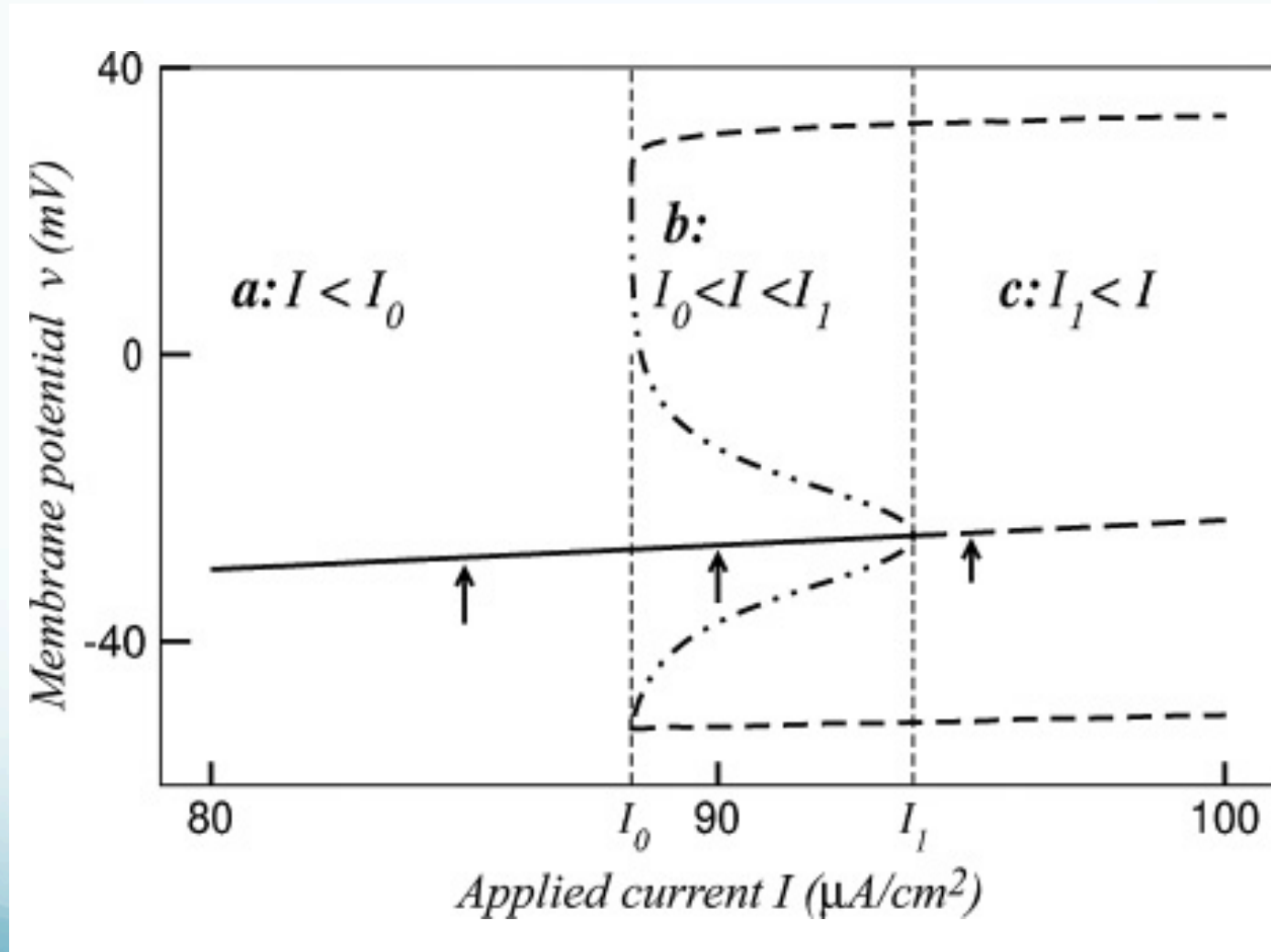


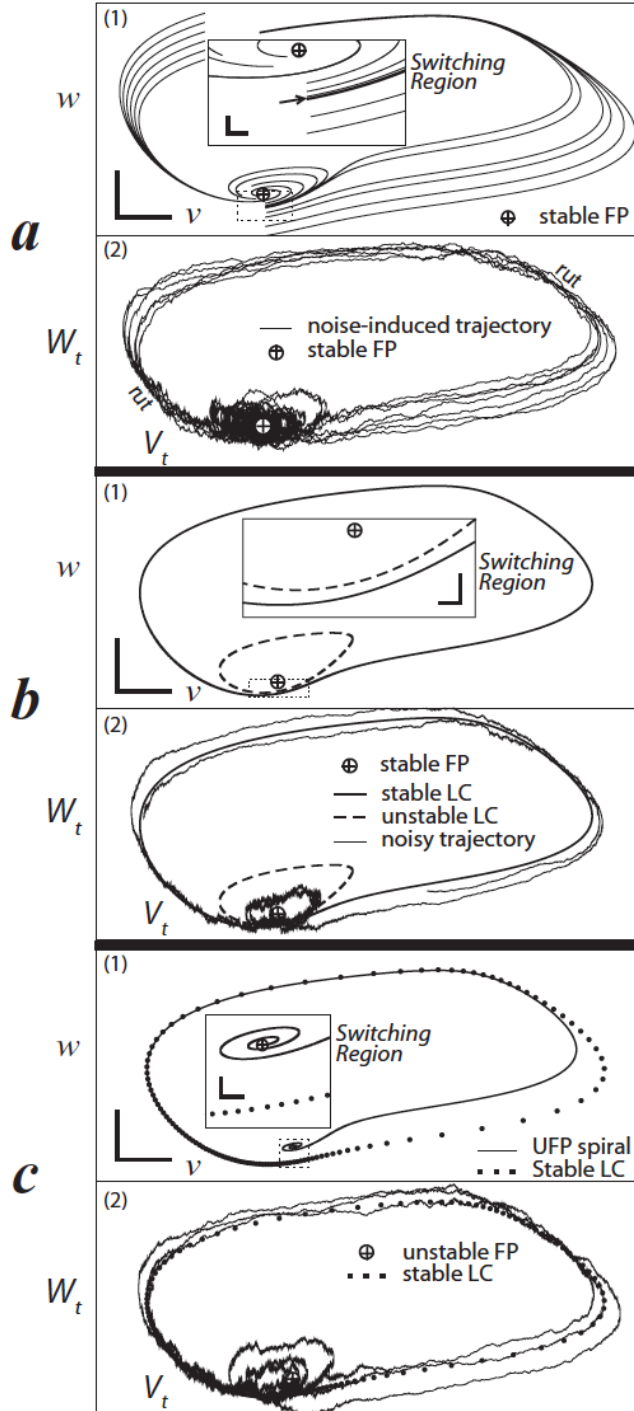
Stochastic Neuron Models

Priscilla E. Greenwood & Lawrence M. Ward
University of British Columbia

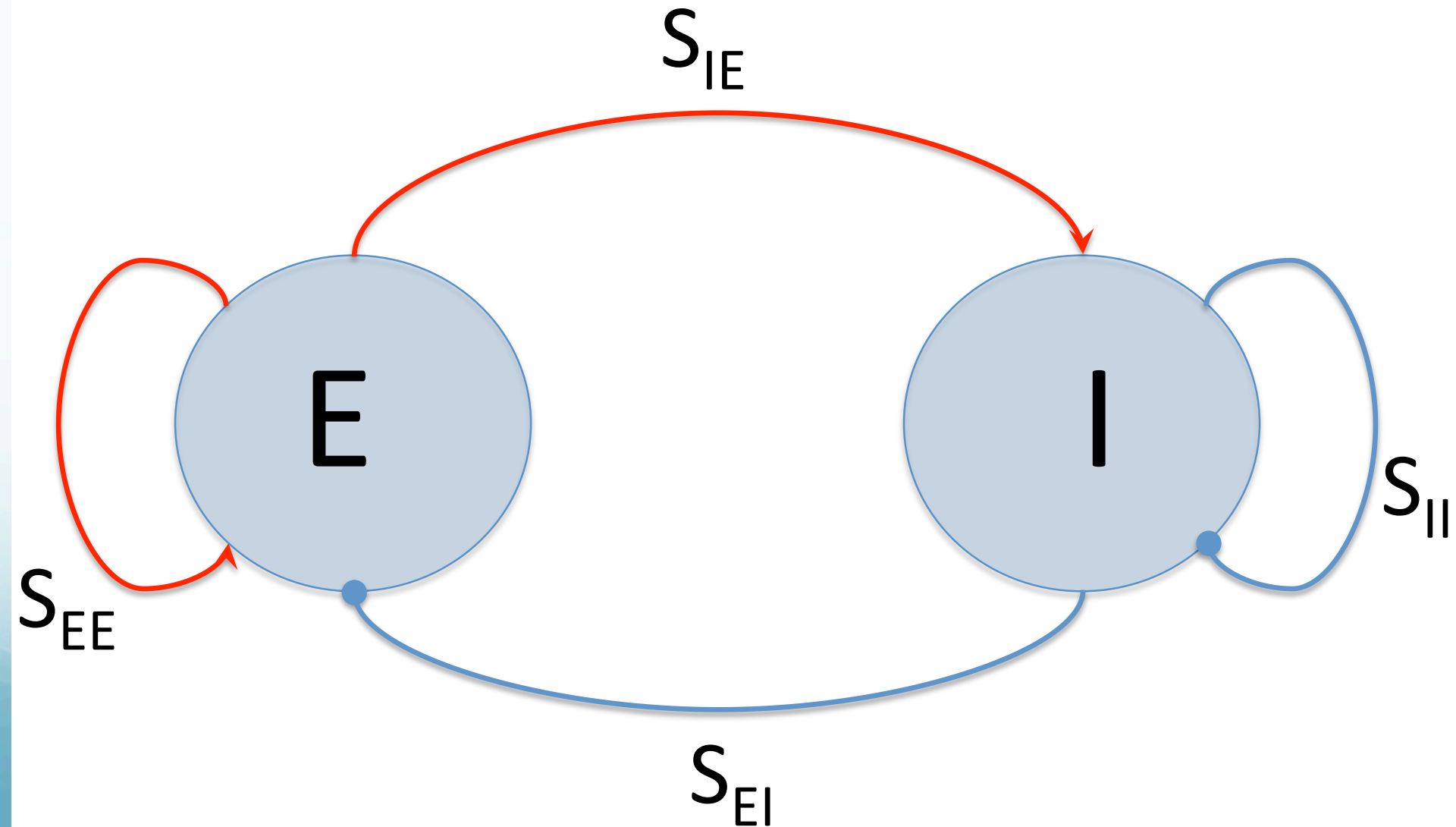
Bifurcation diagram for the Morris-Lecar neuron



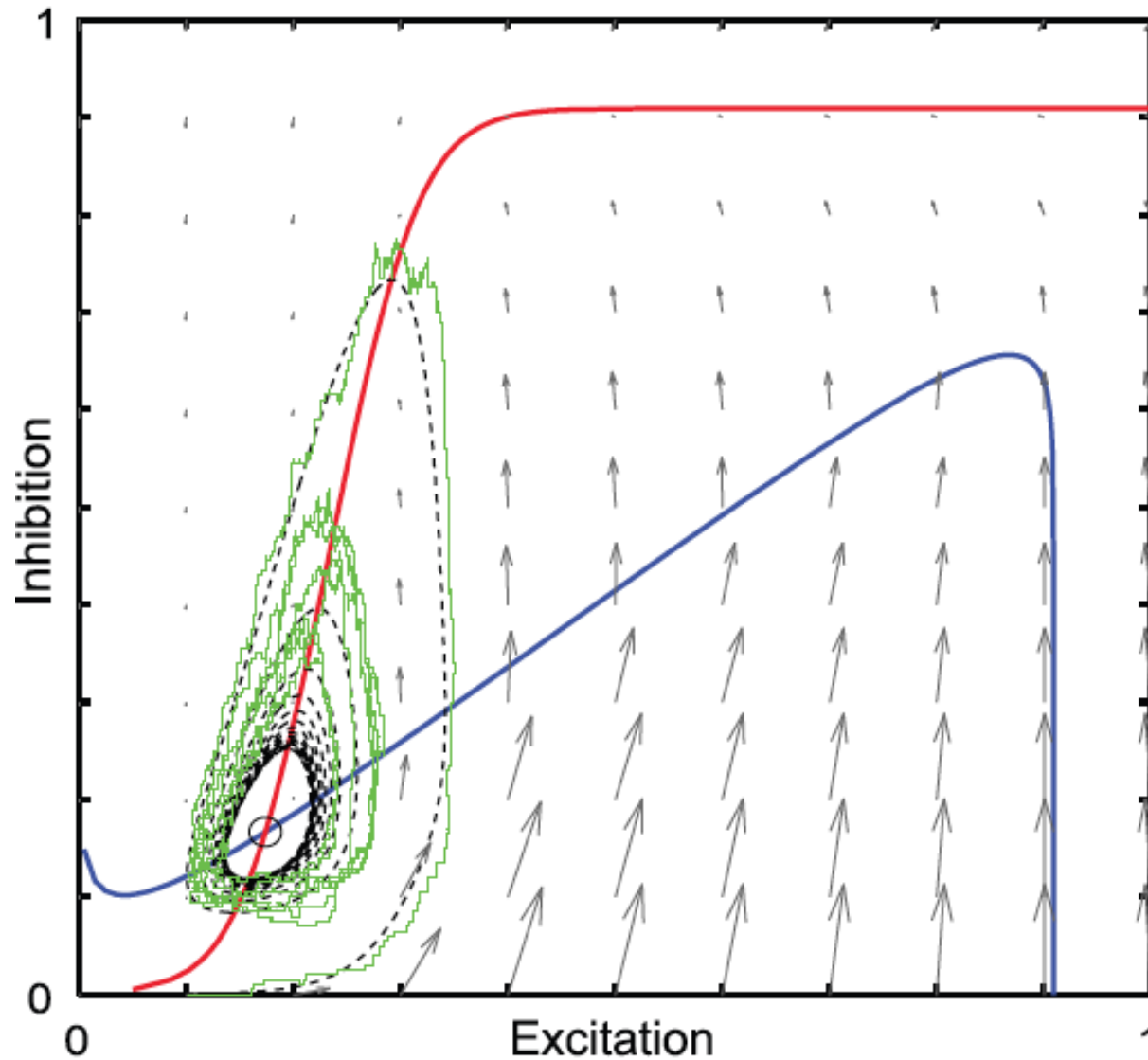
Dynamics of the Morris-Lecar neuron



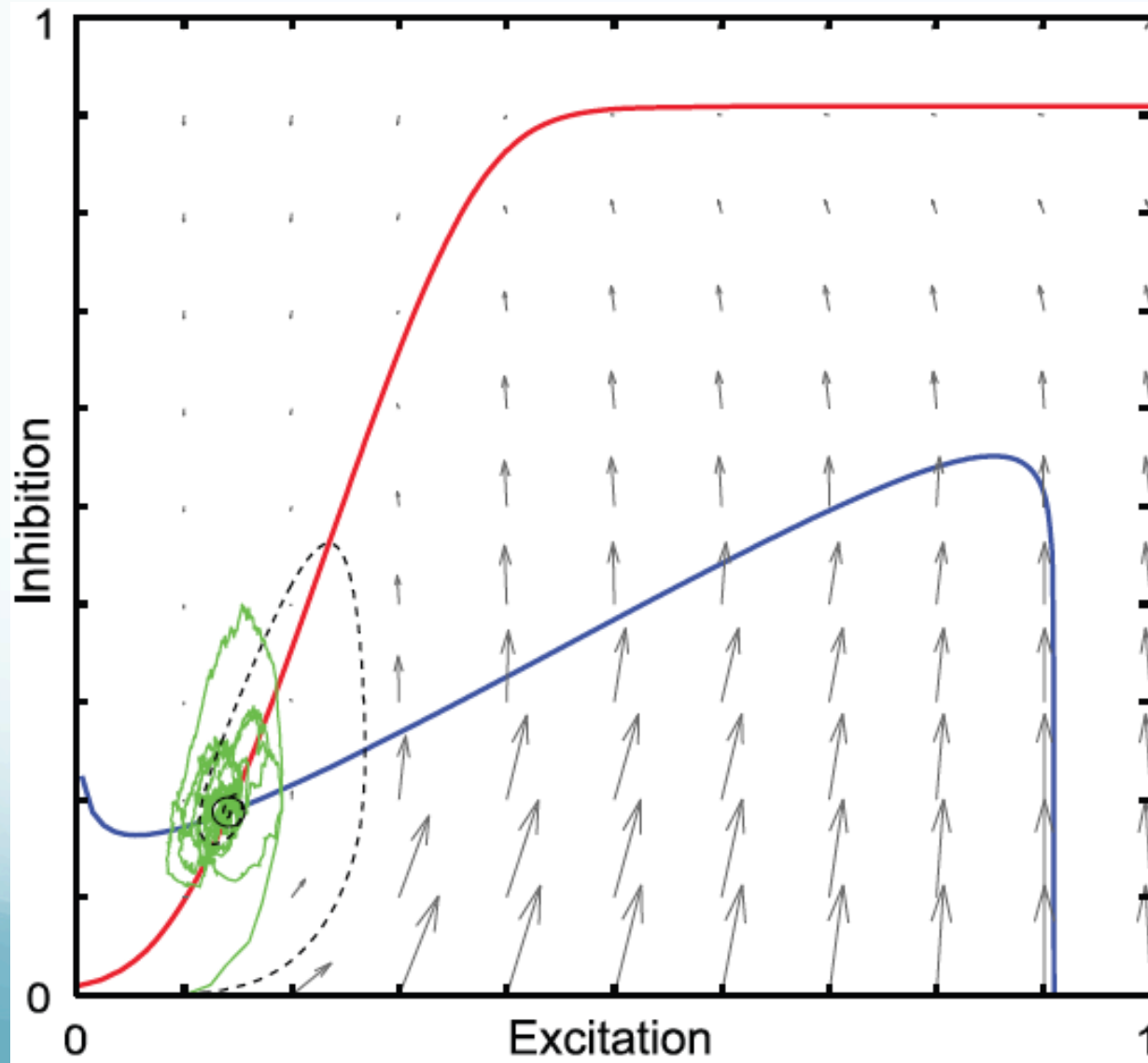
Standard model of excitatory (E) and inhibitory (I) neuron interactions



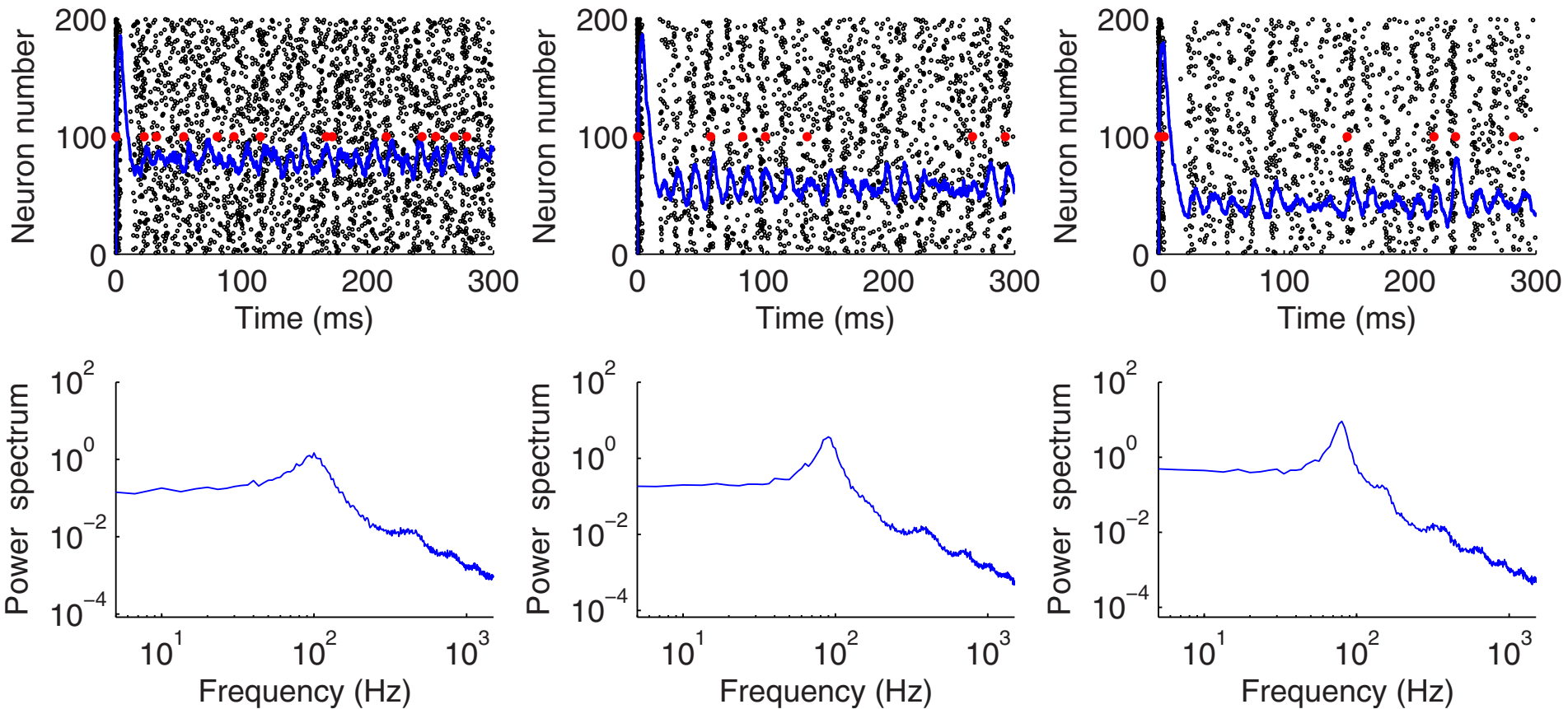
Limit cycle (dotted black) and noisy limit cycle (solid green)



Quasi-cycle (solid green) and damped oscillation (dotted black)



Neuron population firing and local field potential oscillations



Thank You