

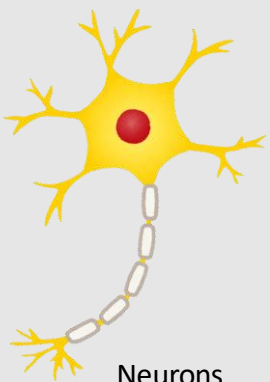
Synchronization



Fireflies



Metronomes

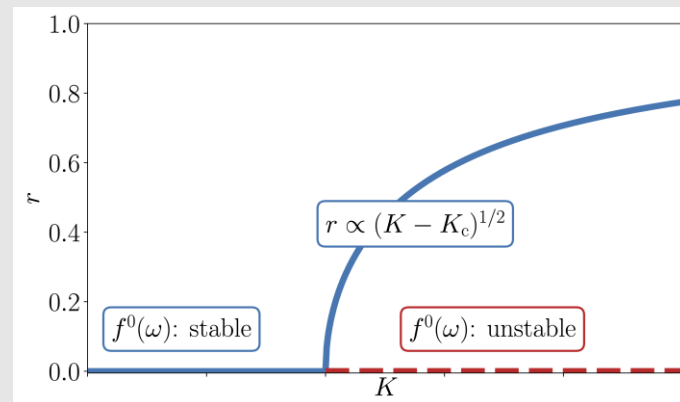


Neurons

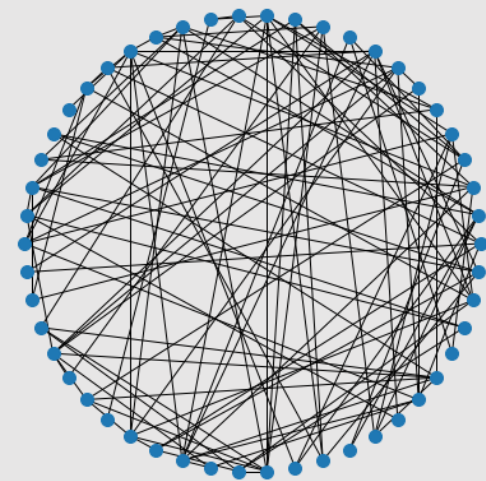
Coupled phase-oscillator model

$$\frac{d\theta_i}{dt} = \omega_i + \sum_{j=1}^N \Gamma_{ij} (\theta_j - \theta_i)$$

Theory



Bifurcation theory Phase transition



Network structure