

### PHYS 7123 Fall 2010: Weekly Schedule

week #	lecture theme
01	Stochastic Processes; Langevin Equations
02	Correlation Functions & Power Spectra
03	Fokker-Planck Equation
04	First Passage; Kramers Formula
05	Eigen-analysis of FPEs
06	Applications
07	Stochastic Resonance
08	Pattern Formation & Non-Equilibrium Phase Transitions
09	Reaction-Diffusion Systems
10	Class Presentations
11	Rayleigh-Benard Convection
12	Lorenz Equations
13	Kuramoto Model
14	Landau Theory
15	Wilson's Renormalization Group
16	Nonequilibrium RG