

Fall 2015 Physics Elective!

PH 235 Physics Simulations

First meeting: September 2, 2015
10-10:50 am, 301 NAB

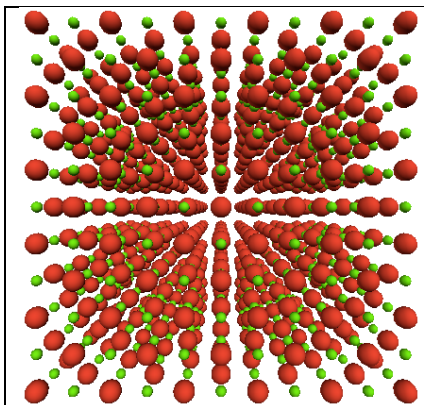
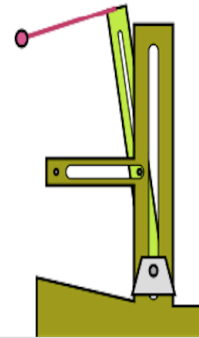
Professor: Dr. Anita Raja

Course Description: Learn numerical methods and computational simulations that will deepen your understanding of physics while sharpening your coding skills!

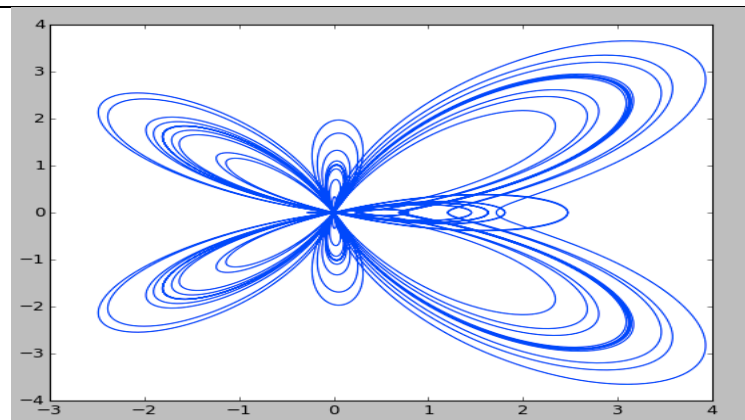
Topics Covered:

- Implementation of fourth-order Runge-Kutta and Adams-Bashforth-Moulton
- Fourier transforms
- Stochastic processes
- Monte Carlo simulations
- Visualization/animation of simulation results.

Motion of a Trebuchet



Sodium Chloride lattice



Polar plot of Fey's function