

Do you want to learn how to....

Solve equations on a computer?

Create physics simulations?

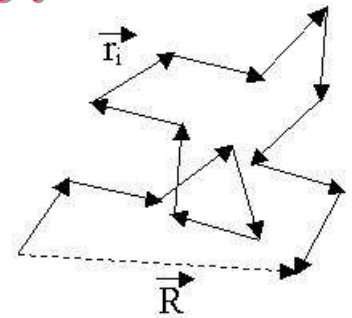
See chaotic systems in action?

Use scientific software?

Develop job skills?



Learn how this fall in:



Physics 409:

Computational Physics

Prof. Alex Small & Prof. Peter Siegel, Mon & Weds 4 pm -5:50 pm

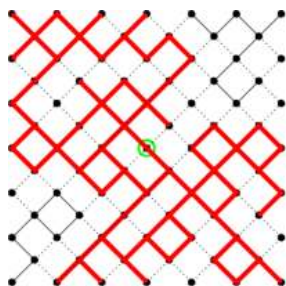
Readings: Distributed in class

Suggested software: Matlab student edition (in bookstore). May also use Mathematica or C.

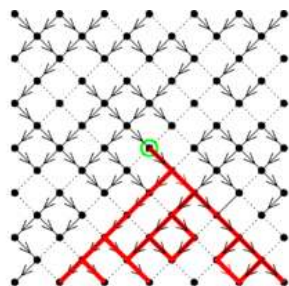
Grading: Project-based

Prerequisites: Physics 133 and Math 216 (or 208 or 224)

Topics: Scientific Programming, Chaos Theory, Numerical Methods for Differential Equations, Random Walks, Percolation, Monte Carlo Simulations.



Isotropic percolation



Directed percolation

