PY 542: Non-Equilibrium Statistical Physics   Problem Set 9, Fall 2011

Reading: This week we continue with the dynamics of the Ising-Glauber model. I'll then turn to the voter model, and finally to spin-exchange dynamics. Please read, in order, sections 8.5 & 8.6, then 8.1, and finally 8.7 of the text.

Problems: Due Monday, November 14 by 5:00pm.

1. Text 8.4.

2. Text 8.5.

3. Text 8.10.

4. Text 8.17. The second sentence of this problem is unclearly worded. Here is a better wording: "Consider the region $[1, L]$. Suppose that the spin at x points down, while all remaining spins in $[1, L]$ point up."