

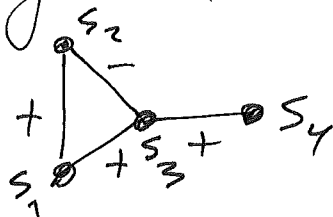
Homework 10/03/2013

(1) Find $C_{H=0}$ (specific heat) for $s_1 - s_2$
[let $J=1, k_B=1$]

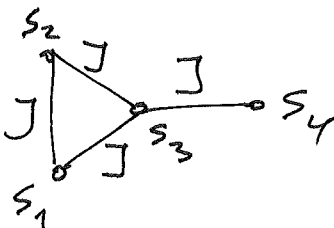
(2) Plot $C_{H=0}(T)$

(3) Find (analytically) asymptotics $C_{H=0}(T)$
at ~~small~~ _{low} and ~~large~~ _{high} T .

(4) Draw all ground states for the Ising system:



(6) Find $Z(T)$ for



(5) Find $Z(T)$ for the cluster of
Ising spins:

