

27th Nov, 2020

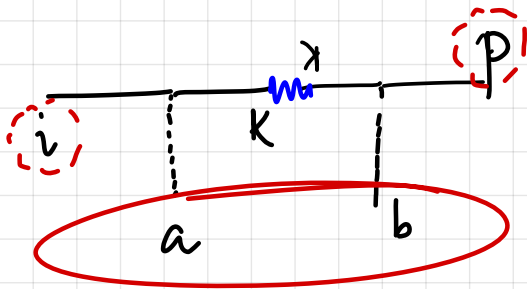
$$A_{ika} B_{amb} C_{bnc} D_{clj} = T_{ikmnlj}$$

triad

Set of triads for 3d tensor

$T_{xx'yy'zz'}$

$$A_{ika} A_{pkb}^* = (S_1)_{ip,ab}$$



After one step of coarse graining, we obtain

$$T_{zz'xx'yy'}^R \cong A'_{zxa} B'_{ayb} C'_{by'c} D'_{cx'z'}$$

Sequence: $xyz \rightarrow zxy \rightarrow yzx \rightarrow xzy \rightarrow \dots$

We test at $T = 4.5115$ which is T_c for 3d square lattice Ising. Free energy ~ -3.51