Matrici di trasferimento

$$N=3$$

$$e^{\beta H} = e^{\beta J(\sigma_1 \sigma_2 + \sigma_2 \sigma_3 + \sigma_3 \sigma_1) + \beta h(\sigma_1 + \sigma_2 + \sigma_3)}$$

$$= T(\sigma_1\sigma_2)T(\sigma_2\sigma_3)T(\sigma_3\sigma_1)$$

$$tre^{BH} = \sum_{\sigma_1, \sigma_2, \sigma_3} \sum_{\sigma_3} T(\sigma_1 \sigma_2) T(\sigma_2 \sigma_3) T(\sigma_3 \sigma_1)$$

$$- tr Tr 3$$

T(v,v') è una matia 2x2

$$T = \begin{pmatrix} e^{\beta(J+h)} & e^{\beta(h-J)} \\ -\beta(J+h) & \alpha(J-h) \end{pmatrix}$$

Z = tr T" = $\lambda_1^{N} + \lambda_2^{N}$ dove λ_1 e λ_2 Somo gli autordo

de T

Questo de la Soluzino es atta

del modello de Joing d=1

 $\lambda_{12} = e^{\beta J} h(\beta h) \pm \left[e^{\beta J} h^2(\beta h) - 2sh(2\beta f)\right]$ per h = 0 $\lambda_{12} = \left(e^{\beta J} \pm e^{\beta J}\right)$ $m = \langle \sigma_{x} \rangle = \frac{t - e^{\beta H} \sigma_{x}}{t - e^{\beta H}}$ $m = t - T T T \sigma T - T$

$$= \frac{\text{tr} T^{N}}{\text{tr} T^{N}}$$

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$$M = -\frac{1}{N} \frac{\partial F}{\partial h} + \frac{1}{F} \frac{\partial F}{\partial h}$$

$$M = \frac{3h}{N} \frac{(\beta h)}{N} + \frac{1}{F} \frac{\partial F}{\partial h}$$

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Sfruttouds queste possibilità du Deusore

