

$$m(T) = \begin{cases} 0 & T > T_c \\ (1 - [\sinh 2\beta J]^{-4})^{1/8} & T < T_c \end{cases} \quad (1)$$

write matrices

$$\begin{aligned} \mathbf{T} &= \begin{pmatrix} T_{++} & T_{+-} \\ T_{-+} & T_{--} \end{pmatrix}, \\ &= \begin{pmatrix} e^{\beta(J+B)} & e^{-\beta J} \\ e^{-\beta J} & e^{\beta(J-B)} \end{pmatrix}. \end{aligned} \quad (2)$$

and

$$\sum_i \vec{A} \cdot \vec{B} = -P \int \mathbf{r} \cdot \hat{\mathbf{n}} dA = P \int \vec{\nabla} \cdot \mathbf{r} dV. \quad (3)$$