· Revolution edentity

Proof:

· trace l'dontity:

के व्यक्त

2,

Fermion many body:

Single particle:

· Fourier transformation:

$$\mathcal{F}(z) = \sqrt{\beta} \sum_{n} e^{-i\omega_{n}z} \mathcal{F}(i\omega_{n})$$

$$\omega_{n} = \frac{(2n+1)\pi}{\beta}$$

· Bosonic system:

$$|a\rangle = e^{-\frac{|a|^2}{2} + aa^{+}} = \sum_{i=1}^{n} |a\rangle$$

金属的蒸发效应

 $\frac{\int dada^{*}}{\pi} |a\rangle\langle a| = 1$

· $\langle a | a' \rangle = e^{-\frac{1}{2}(|a|^2 + |a'|^2) + a^2 q}$

. trace/identity.

tr(0) = \(\langle a \) \(\overline{3} \) \(\overline{3} \) \(\overline{\pi} \)

. Partition function for bosonio system

5.

· Source field:

$$\Rightarrow$$
 $\angle \overline{Z_{k'}}^* Z_{j'} > = Q(A^{-1})_{j',k'}$

Wick theopean. complex Number

$$= \sum_{\mathbf{p}} \mathbf{p}(\mathbf{A}^{-1})_{\mathbf{p}_{1}\mathbf{p}_{0}} (\mathbf{A}^{-1})_{\mathbf{p}_{2}\mathbf{p}_{0}} \cdots (\mathbf{A}^{-1})_{\mathbf{p}_{n}\mathbf{p}_{0}} \cdots (\mathbf{A}^{-1})_{\mathbf{p}_{n}\mathbf{p}_{0}}$$

Eupersymmetry:

· + wo particle Hilbert space:

$$\begin{pmatrix} 0 \\ 1 \end{pmatrix}_1 \begin{pmatrix} 0 \\ 1 \end{pmatrix}_2$$

左边的《東上台边的《年子一写?

车边有少了,是了方边心了,尽

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