Observables:

$$\hat{A} : \langle A \rangle = \langle \psi | A | \psi \rangle \qquad ; | \psi \rangle = \frac{|m\rangle \otimes |m\rangle}{|G|}$$

$$\langle A \rangle = \frac{1}{2} \left(A_{\underline{m}_{1},\underline{m}_{1}} \right)$$

$$\langle A \rangle = \frac{1}{2} \left(A_{mn,mn} + A_{nm,nm} \pm A_{nm,nm} \pm A_{nm,mn} \right)$$

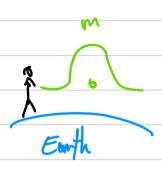
4 Boson or Fermion

$$|\psi\rangle = \left[\left(|w_{NS}\rangle + |w_{SM}\rangle + |w_{NS}\rangle \right) \pm \left(|w_{NS}\rangle + |w_{NS}\rangle \right)$$

$$\langle A \rangle = \left(A_{mns, mns} + A_{mns, nsm} + A_{mns, smn}\right) \pm \left(A_{mns, nsm} + A_{mns, snm}\right) + \left(A_{mns, nsm} + A_{mns, msn}\right)$$

Cluster sepanbility:

A = \(\sum_{n} \) A_n IMXMI





$$\langle n | 1 \rangle = \langle n | n \rangle = 1$$

m: local state

n. remote state

L> A & 1 + 1 & A



Three Porticle:

$$\langle A \rangle = A_{mn,mn} \pm A_{mn,nm}$$

