$$J = \Lambda - \left| \frac{1}{4} \sum_{k} \langle \gamma_{k}(\tau) | \gamma_{k}^{(+st)} \rangle \right|^{2}$$

$$\equiv T_{k}$$

$$= \Lambda - \frac{\Lambda}{\Lambda G} \sum_{k'k'} \overline{C_{k'}} \overline{C_{k'}}$$