

A(2)

$$g(k) = \sum_j \frac{k_0 + |k_0|}{2|k_0|} \delta(k^2 + \kappa_j^2)$$

$$f(k, k') = \delta(k, k') \prod_j (k^2 + \kappa_j^2)$$

Suppl. Cond.

$$\mathcal{J}\Psi = 0 \quad \{[a(k), \bar{L}, \mathcal{J}]\} = 0$$

$$(-) \quad \mathcal{J} = \int j(k, k') a(k') d^4k'$$

$$(+) \quad \mathcal{J} = \int a^\dagger(k) j(k, k') a(k') d^4k'$$

$$\bullet \quad \iint f(k, k') j(k', k'') d^4k' = 0$$

$$\bar{L} = \bar{L}_0 + \bar{L}'$$

$$\bar{L}' = \iint a^\dagger(k) a^\dagger(k') h(k, k'; k'' k''') a(k'') a(k''') d^4k - \dots d^4k''$$

$$[a(k), \bar{L}] = \int f(k, k') a(k') d^4k'$$

$$+ \int \dots a^\dagger(k') h \dots a \dots$$

$$+ \dots$$

$$+ \dots$$

Hermiticity
 symmetry

$$\Psi = \int a^\dagger(k'') g(k'') d^4k'' \Omega$$

$$+ \int a^\dagger a^\dagger \dots \Omega + \dots$$

