

Particle spectrograph

Lagrangian density

$$\beta^2 \phi^2 + \partial_\alpha \phi \partial^\alpha \phi$$

Added source term: $\phi \rho$

Wave operator

$$\phi_{0+}^{\#1}$$

$$\phi_{0+}^{\#1} \dagger \boxed{\beta^2 + k^2}$$

Saturated propagator

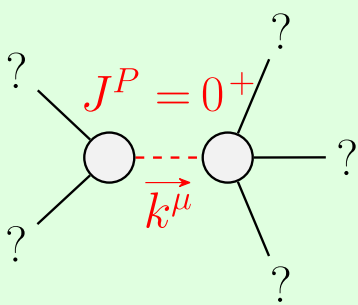
$$\rho_{0+}^{\#1}$$

$$\rho_{0+}^{\#1} \dagger \boxed{\frac{1}{\beta^2 + k^2}}$$

Source constraints

(No source constraints)

Massive spectrum



Massive particle

Pole residue:	True
Polarisations:	1
Square mass:	$-\beta^2 > 0$
Spin:	0
Parity:	Even

Massless spectrum

(No massless particles)

Unitarity conditions

Unitarity conditions

(Unitarity is demonstrably impossible)