

Lagrangian density

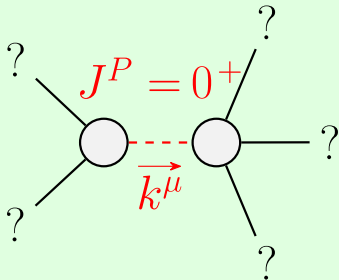
$$-\beta\phi^2 + \alpha\partial_\alpha\phi\partial^\alpha\phi$$

Added source term: $\phi\rho$

(No source constraints)

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

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



Massive particle

Pole residue:	$\frac{1}{\alpha} > 0$
Polarisations:	1
Square mass:	$\frac{\beta}{\alpha} > 0$
Spin:	0
Parity:	Even

Unitarity conditions
 $\alpha > 0 \ \&\& \ \beta > 0$

(No massless particles)