

Lagrangian density

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

Added source term: $|\phi \rho$

(No source constraints)

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

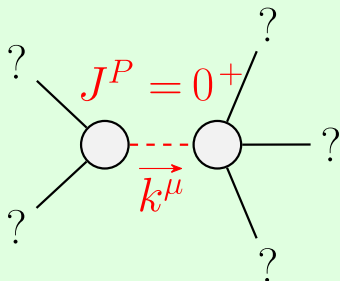
$$-\beta + \alpha k^2$$

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

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

$$\frac{1}{-\beta + \alpha k^2}$$

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



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)