

Lagrangian density

$$\gamma \mathcal{B}_\alpha \mathcal{B}^\alpha + \beta \partial_\alpha \mathcal{B}^\alpha \partial_\beta \mathcal{B}^\beta$$

Added source term: $\mathcal{B}^\alpha \mathcal{T}_\alpha$

$$\mathcal{B}_{1-}^{\#1} + \alpha$$

$$\boxed{\gamma} \mathcal{B}_{1-}^{\#1}$$

$$\mathcal{T}_{0+}^{\#1}$$

$$\mathcal{T}_{0+}^{\#1} + \boxed{\frac{1}{\gamma + \beta k^2}}$$

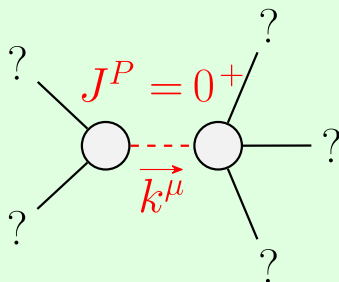
$$\mathcal{B}_{1-}^{\#1} \alpha$$

$$\mathcal{B}_{1-}^{\#1} + \alpha \boxed{\gamma}$$

$$\mathcal{B}_{0+}^{\#1}$$

$$\mathcal{B}_{0+}^{\#1} + \boxed{\gamma + \beta k^2}$$

(No source constraints)



Massive particle

Pole residue: $\frac{1}{\beta} > 0$

Polarisations: 1

Square mass: $-\frac{\gamma}{\beta} > 0$

Spin: 0

Parity: Even

$\beta > 0 \ \&\& \ \gamma < 0$ | Unitarity conditions

(No massless particles)