

Lagrangian density

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

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

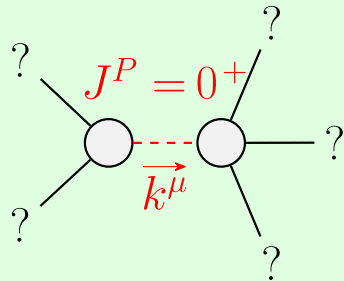
$$\mathcal{J}_{1-}^{\#1} + \alpha \boxed{\frac{1}{\gamma}}$$

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

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

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

(No source constraints)



Massive particle

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

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

(No massless particles)