

$$\mathcal{B}_{1^{-} \alpha}^{\#1} + \alpha \boxed{\gamma + \alpha k^2}$$

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

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

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

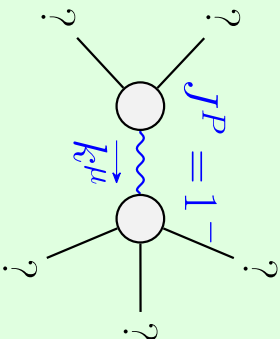
(No source constraints)

$$\frac{\text{Lagrangian density}}{\gamma \mathcal{B}_{\alpha} \mathcal{B}^{\alpha} + \beta \partial_{\alpha} \mathcal{B}^{\alpha} \partial_{\beta} \mathcal{B}^{\beta} + \alpha \partial_{\beta} \mathcal{B}_{\alpha} \partial^{\beta} \mathcal{B}^{\alpha}}$$

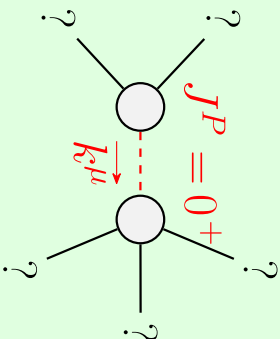
$$\text{Added source term: } \mathcal{B}^{\alpha} \mathcal{J}_{\alpha}$$

### Unitarity conditions

(Unitarity is demonstrably impossible)



Massive particle	
Pole residue:	$-\frac{1}{\alpha} > 0$
Polarisations:	3
Square mass:	$-\frac{\gamma}{\alpha} > 0$
Spin:	1
Parity:	Odd



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

(No massless particles)