Lagrangian density

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

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

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

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

(No source constraints)

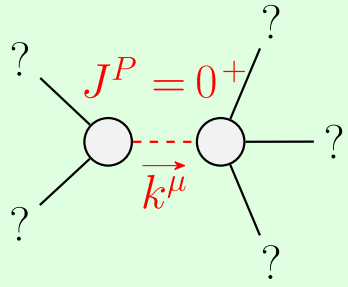
$\mathcal{J}_{0^+}^{\#1}$

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

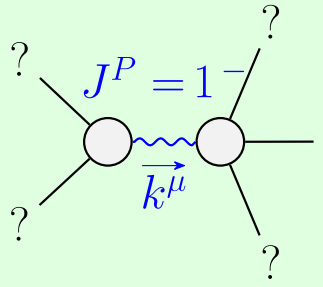
$\mathcal{B}_{1^-}^{\#1} \dagger^\alpha \boxed{\gamma + \alpha\, k^2}\ \mathcal{B}_{1^-\ \alpha}^{\#1}$

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

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



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



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

Unitarity conditions

(Unitarity is demonstrably impossible)

(No massless particles)