

Lagrangian density

$$\gamma \mathcal{B}_\alpha \mathcal{B}^\alpha - 2\alpha \partial_\alpha \mathcal{B}_\beta \partial^\beta \mathcal{B}^\alpha + 2\alpha \partial_\beta \mathcal{B}_\alpha \partial^\beta \mathcal{B}^\alpha$$

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

(No source constraints)

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

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

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

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

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

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

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

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

Massive particle

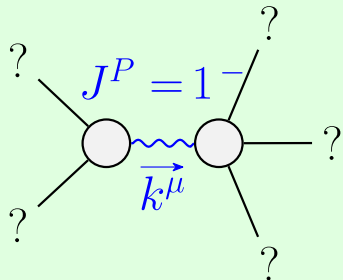
Pole residue:	$-\frac{1}{2\alpha} > 0$
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Polarisations:	3
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Square mass:	$-\frac{\gamma}{2\alpha} > 0$
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Spin:	1
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Parity:	Odd
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Unitarity conditions
 $\alpha < 0 \ \&\& \ \gamma > 0$

(No massless particles)