

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:  $\mathcal{B}^\alpha \mathcal{J}_\alpha$

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

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

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

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

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

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

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

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

(No source constraints)

(No massless particles)

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
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$$\alpha < 0 \ \&\& \ \gamma > 0$$

