

Lagrangian density

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

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

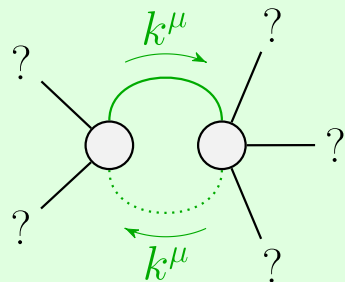
$$\mathcal{J}_{1^-}^{\#1} + \alpha \boxed{\frac{1}{\alpha k^2}}$$

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

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

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

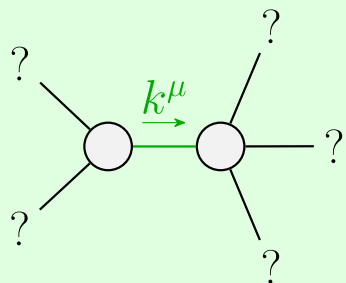
(No source constraints)



Quartic pole

Pole residue:	$0 < -\frac{\beta}{\alpha(\alpha+\beta)} \ \&\& \ -\frac{\beta}{\alpha(\alpha+\beta)} > 0$
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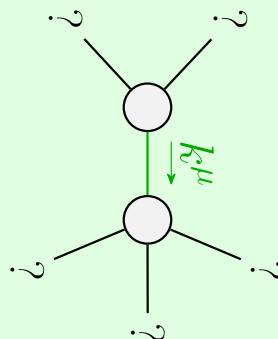
Polarisations:	1
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Quadratic pole

Pole residue:	$-\frac{1}{\alpha} > 0$
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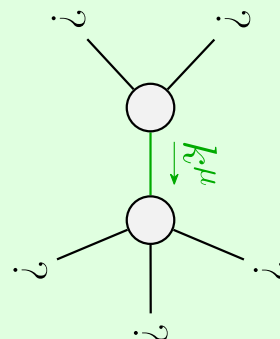
Polarisations:	2
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Quadratic pole

Pole residue:	$\frac{1}{\alpha} + \frac{1}{\alpha+\beta} > 0$
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Polarisations:	1
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Quadratic pole

Pole residue:	$-\frac{1}{\alpha} - \frac{1}{\alpha+\beta} > 0$
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Polarisations:	1
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Unitarity conditions  
(Unitarity is demonstrably impossible)

(No massive particles)