

Lagrangian density

$$\beta \mathcal{B}_{\alpha\beta} \mathcal{B}^{\alpha\beta} + \mathcal{B}^{\alpha\beta} \mathcal{J}_{\alpha\beta} - \frac{2}{3} \alpha \partial_\beta \mathcal{B}_{\alpha\chi} \partial^\chi \mathcal{B}^{\alpha\beta} + \frac{1}{3} \alpha \partial_\chi \mathcal{B}_{\alpha\beta} \partial^\chi \mathcal{B}^{\alpha\beta}$$

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

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

(No source constraints)

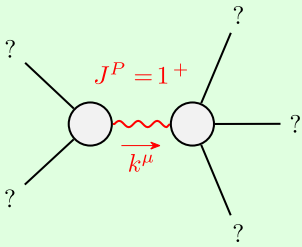


Diagram illustrating a massive particle exchange between two vertices. The vertices are represented by circles, and the exchange is shown by a wavy line labeled $J^P = 1+$ and k^μ . The external lines are marked with question marks.

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

Unitarity conditions
 $\alpha > 0 \ \&\& \ \beta < 0$

(No massless particles)