Lagrangian density

$$\beta\, h_{\alpha\beta}\, h^{\alpha\beta} - \gamma\, h^{\alpha}{}_{\alpha}\, h^{\beta}{}_{\beta} + \frac{1}{2}\,\alpha\,\partial_{\beta}h^{\chi}{}_{\chi}\,\partial^{\beta}h^{\alpha}{}_{\alpha} + \alpha\,\partial_{\alpha}h^{\alpha\beta}\,\partial_{\chi}h_{\beta}{}^{\chi} - \alpha\,\partial^{\beta}h^{\alpha}{}_{\alpha}\,\partial_{\chi}h_{\beta}{}^{\chi} - \frac{1}{2}\,\alpha\,\partial_{\chi}h_{\alpha\beta}\,\partial^{\chi}h^{\alpha\beta}$$

Added source term:	$h^{\alpha\beta}\,\mathcal{T}_{\alpha\beta}$

$$\begin{array}{cc} & \mathcal{T}^{\#1}_{2^+}{}_{\alpha\beta} \\ \mathcal{T}^{\#1}_{2^+}{}^{\dagger\,\alpha\beta} & \boxed{\dfrac{1}{\beta-\frac{\alpha k^2}{2}}} \end{array}$$

$$\begin{array}{cc} & h^{\#1}_{2^+}{}_{\alpha\beta} \\ h^{\#1}_{2^+}{}^{\dagger\,\alpha\beta} & \boxed{\beta-\dfrac{\alpha k^2}{2}} \end{array}$$

$$\begin{array}{ccc} & h^{\#1}_{0^+} & h^{\#2}_{0^+} \\ h^{\#1}_{0^+}{}^{\dagger} & \beta-3\gamma+\alpha k^2 & -\sqrt{3}\,\gamma \\ h^{\#2}_{0^+}{}^{\dagger} & -\sqrt{3}\,\gamma & \beta-\gamma \end{array}$$

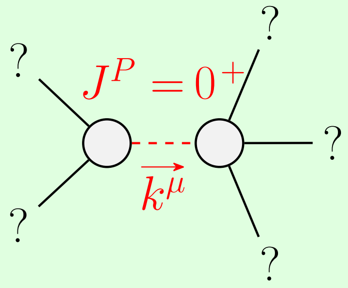
(No source constraints)

$$\begin{array}{ccc} & \mathcal{T}^{\#1}_{0^+} & \mathcal{T}^{\#2}_{0^+} \\ \mathcal{T}^{\#1}_{0^+}{}^{\dagger} & \dfrac{1}{\frac{\beta(\beta-4\gamma)}{\beta-\gamma}+\alpha k^2} & \dfrac{\sqrt{3}\,\gamma}{\beta(\beta-4\gamma)+\alpha(\beta-\gamma)k^2} \\ \mathcal{T}^{\#2}_{0^+}{}^{\dagger} & \dfrac{\sqrt{3}\,\gamma}{\beta(\beta-4\gamma)+\alpha(\beta-\gamma)k^2} & \dfrac{1}{\beta+\gamma\left(-1-\frac{3\gamma}{\beta-3\gamma+\alpha k^2}\right)} \end{array}$$

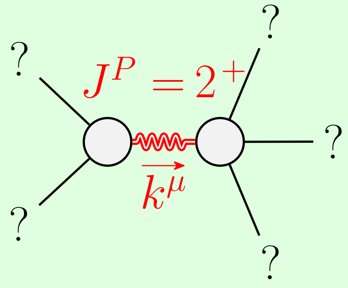
$$\begin{array}{cc} & h^{\#1}_{1^-}{}_{\alpha} \\ h^{\#1}_{1^-}{}^{\dagger\,\alpha} & \boxed{\beta} \end{array}$$

$$\begin{array}{cc} & \mathcal{T}^{\#1}_{1^-}{}_{\alpha} \\ \mathcal{T}^{\#1}_{1^-}{}^{\dagger\,\alpha} & \boxed{\dfrac{1}{\beta}} \end{array}$$

(No massless particles)



Massive particle	
Pole residue:	$\frac{\beta^2-2\beta\gamma+4\gamma^2}{\alpha(\beta-\gamma)^2} > 0$
Polarisations:	1
Square mass:	$-\frac{\beta(\beta-4\gamma)}{\alpha(\beta-\gamma)} > 0$
Spin:	0
Parity:	Even



Massive particle	
Pole residue:	$-\frac{2}{\alpha} > 0$
Polarisations:	5
Square mass:	$\frac{2\beta}{\alpha} > 0$
Spin:	2
Parity:	Even

Unitarity conditions
(Unitarity is demonstrably impossible)