

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

$$h_{2^+}^{\#1} \dagger^{\alpha\beta} \boxed{\beta - \frac{\alpha k^2}{2}} h_{2^+}^{\#1 \alpha\beta}$$

$$\mathcal{T}_{1^-}^{\#1} \dagger^\alpha \boxed{\frac{1}{\beta}} \mathcal{T}_{1^-}^{\#1 \alpha}$$

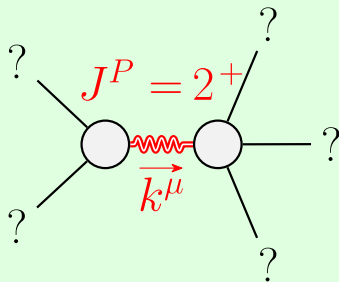
$$\begin{array}{c} \text{Lagrangian density} \\ \hline \beta h_{\alpha\beta} h^{\alpha\beta} - \beta h^\alpha_\alpha h^\beta_\beta + \\ \frac{1}{2} \alpha \partial_\beta h^\chi_\chi \partial^\beta h^\alpha_\alpha + \alpha \partial_\alpha h^{\alpha\beta} \partial_\chi h^\chi_\beta - \\ \alpha \partial^\beta h^\alpha_\alpha \partial_\chi h^\chi_\beta - \frac{1}{2} \alpha \partial_\chi h_{\alpha\beta} \partial^\chi h^{\alpha\beta} \\ \hline \text{Added source term: } h^{\alpha\beta} \mathcal{T}_{\alpha\beta} \end{array}$$

$$\begin{array}{cc} \mathcal{T}_{0^+}^{\#1} & \mathcal{T}_{0^+}^{\#2} \\ \mathcal{T}_{0^+}^{\#1} \dagger & \boxed{\begin{array}{cc} 0 & -\frac{1}{\sqrt{3}\beta} \\ -\frac{1}{\sqrt{3}\beta} & \frac{2\beta - \alpha k^2}{3\beta^2} \end{array}} \end{array}$$

(No source constraints)

$$h_{1^-}^{\#1} \dagger^\alpha \boxed{\beta} h_{1^-}^{\#1 \alpha}$$

$$\begin{array}{cc} h_{0^+}^{\#1} & h_{0^+}^{\#2} \\ h_{0^+}^{\#1} \dagger & \boxed{\begin{array}{cc} -2\beta + \alpha k^2 & -\sqrt{3}\beta \\ -\sqrt{3}\beta & 0 \end{array}} \end{array}$$



Massive particle

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

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

(No massless particles)