Lagrangian density

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

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

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

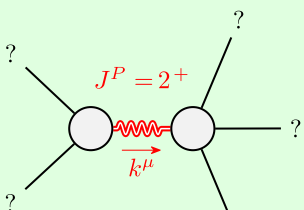
$$\begin{array}{c|c} & \mathcal{T}^{\#1}_{2^+}{}^{\dagger\,\alpha\beta} \\ \hline \mathcal{T}^{\#1}_{2^+\,\alpha\beta} & \frac{1}{\beta-\frac{\alpha k^2}{2}} \end{array}$$

$$\begin{array}{c|c} & h^{\#1}_{2^+}{}^{\dagger\,\alpha\beta} \\ \hline h^{\#1}_{2^+\,\alpha\beta} & \beta-\frac{\alpha k^2}{2} \end{array}$$

$$\begin{array}{c|c} & \mathcal{T}^{\#1}_{1^-\,\alpha} \\ \hline \mathcal{T}^{\#1}_{1^-}{}^{\dagger\,\alpha} & \frac{1}{\beta} \end{array}$$

$$\begin{array}{c|c} & h^{\#1}_{1^-}{}^{\dagger\,\alpha} \\ \hline h^{\#1}_{1^-\,\alpha} & \beta \end{array}$$

(No source constraints)



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)