Lagrangian density

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

$$\mathcal{T}_{0+}^{\#1} \qquad \mathcal{T}_{0+}^{\#2}$$

$$\mathcal{T}_{0+}^{\#1} + \frac{1}{\frac{\beta(\beta-4\gamma)}{\beta-\gamma} + \alpha k^2} \qquad \frac{\sqrt{3} \gamma}{\beta(\beta-4\gamma) + \alpha(\beta-\gamma) k^2}$$

$$\mathcal{T}_{0+}^{\#2} + \frac{\sqrt{3} \gamma}{\beta(\beta-4\gamma) + \alpha(\beta-\gamma) k^2} \qquad \frac{1}{\beta+\gamma(-1-\frac{3\gamma}{\beta-3\gamma+\alpha k^2})}$$

$$h_{0+}^{\#1} \qquad h_{0+}^{\#2}$$

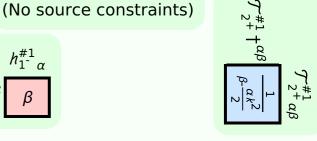
$$h_{0+}^{\#1} + \beta - 3 \gamma + \alpha k^{2} - \sqrt{3} \gamma$$

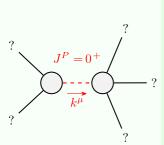
$$h_{0+}^{\#2} + -\sqrt{3} \gamma \qquad \beta - \gamma$$

$$h_{2+}^{\#1} + \alpha\beta \qquad \qquad f_{1-} \alpha$$

$$h_{2+}^{\#1} + \alpha\beta \qquad \qquad f_{1-} \alpha$$

$$h_{2+}^{\#1} + \alpha\beta \qquad \qquad h_{2-} \beta$$



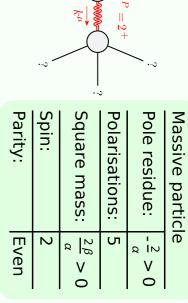


Pole residue:
$$\frac{\beta^2 - 2\beta\gamma + 4\gamma^2}{\alpha(\beta - \gamma)^2} > 0$$
Polarisations: 1
Square mass:
$$-\frac{\beta(\beta - 4\gamma)}{\alpha(\beta - \gamma)} > 0$$
Spin: 0
Parity: Even

Massive particle

$$\begin{array}{c}
?\\
J^P = 2^+\\
?\\
k^{\mu}
\end{array}$$

(No massless particles)



(Unitarity is demonstrably impossible)