Lagrangian density

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

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

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

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

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

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

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

$$\beta - \gamma$$

(No source constraints)

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

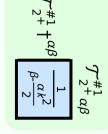
$$h_{2}^{\#1} + \alpha\beta$$

$$\beta - \frac{\alpha k^{2}}{2}$$

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

$$\beta = \frac{1}{\beta}$$

$$+^{\alpha} \beta$$

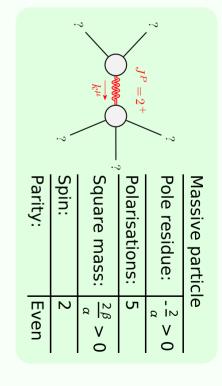


Massive particle

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

Square mass:
$$-\frac{\beta(\beta-4\gamma)}{\alpha(\beta-\gamma)} > 0$$
Polarisations: 0

Parity: Even



Unitarity conditions

(Unitarity is demonstrably impossible)