

Lagrangian density

$$-\alpha \partial_\beta \partial_\alpha h^{\alpha\beta} \partial_\delta \partial_\chi h^{\chi\delta} + 2 \alpha \partial_\beta \partial^\beta h^\alpha_\alpha \partial_\delta \partial_\chi h^{\chi\delta} - \alpha \partial_\beta \partial^\beta h^\alpha_\alpha \partial_\delta \partial^\delta h^\chi_\chi$$

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

$$\mathcal{T}_{2^+}^{\#1} \dagger^{\alpha\beta} \begin{array}{|c|} \hline 0 \\ \hline \end{array} \mathcal{T}_{2^+ \alpha\beta}^{\#1}$$

$$h_{2^+}^{\#1} \dagger^{\alpha\beta} \begin{array}{|c|} \hline 0 \\ \hline \end{array} h_{2^+ \alpha\beta}^{\#1}$$

$$\mathcal{T}_{1^-}^{\#1} \dagger^\alpha \begin{array}{|c|} \hline 0 \\ \hline \end{array} \mathcal{T}_{1^- \alpha}^{\#1}$$

Unitarity conditions

True

(No massless particles)

(No massive particles)

Source constraints

SO(3) irreps	#
$\mathcal{T}_{0^+}^{\#2} == 0$	1
$\mathcal{T}_{1^-}^{\#1\alpha} == 0$	3
$\mathcal{T}_{2^+}^{\#1\alpha\beta} == 0$	5
Total #:	9

$$\begin{array}{cc} \mathcal{T}_{0^+}^{\#2} & \mathcal{T}_{0^+}^{\#1} \\ \begin{array}{|c|c|} \hline 0 & -\frac{1}{3\alpha k^4} \\ \hline 0 & 0 \\ \hline \end{array} & \begin{array}{c} \mathcal{T}_{0^+}^{\#1} \\ \mathcal{T}_{0^+}^{\#2} \end{array} \end{array}$$

$$\begin{array}{cc} h_{0^+}^{\#1} & h_{0^+}^{\#2} \\ h_{0^+}^{\#1} \dagger & \begin{array}{|c|c|} \hline -3\alpha k^4 & 0 \\ \hline 0 & 0 \\ \hline \end{array} \\ h_{0^+}^{\#2} \dagger & \end{array}$$

$$h_{1^-}^{\#1} \dagger^\alpha \begin{array}{|c|} \hline 0 \\ \hline \end{array} h_{1^- \alpha}^{\#1}$$