Lagrangian density

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

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

Source constraints

SO(3) irreps	#
$\mathcal{T}^{\#2}_{0^+} == 0$	1
$\mathcal{T}^{\#1\alpha}_{1^-} == 0$	3
Total #:	4

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

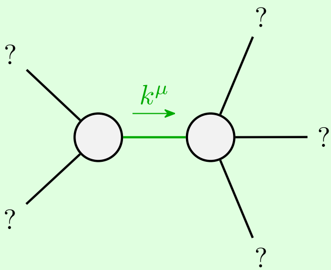
$$\begin{array}{c|c} & \mathcal{T}^{\#1}_{1^-}{}_{\alpha} \\ \hline \mathcal{T}^{\#1}_{1^-}\dagger^{\alpha} & 0 \end{array}$$

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

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

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

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



Quadratic pole

Pole residue:	$-\frac{1}{\alpha} > 0$
Polarisations:	2

Unitarity conditions

$\alpha < 0$

(No massive particles)