

Lagrangian density

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

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

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

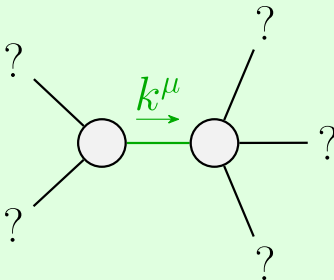
$\mathcal{T}^{\#1}_{1-} + \alpha$	$\mathcal{T}^{\#1}_{1-}$
	0

$h^{\#1}_{1-} + \alpha$	$h^{\#1}_{1-}$
	0

$\mathcal{T}^{\#1}_{2+ \alpha\beta}$
$\mathcal{T}^{\#1}_{2+} + \alpha\beta$
$-\frac{2}{\alpha k^2}$

$h^{\#1}_{2+ \alpha\beta}$
$h^{\#1}_{2+} + \alpha\beta$
$-\frac{\alpha k^2}{2}$

	$h^{\#1}_{0+}$	$h^{\#2}_{0+}$
$h^{\#1}_{0+} +$	αk^2	0
$h^{\#2}_{0+} +$	0	0



Quadratic pole

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

Polarisations: 2

Unitarity conditions
 $\alpha < 0$

(No massive particles)