Lagrangian density

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

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

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

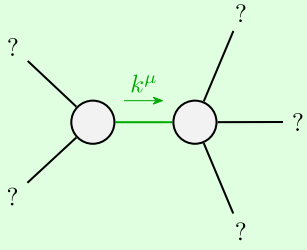
	$h^{\#1}_{0^+}$	$h^{\#2}_{0^+}$	$\phi^{\#1}_{0^+}$
$h^{\#1\dagger}_{0^+}$	αk^2	0	0
$h^{\#2\dagger}_{0^+}$	0	0	0
$\phi^{\#1\dagger}_{0^+}$	0	0	βk^2

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

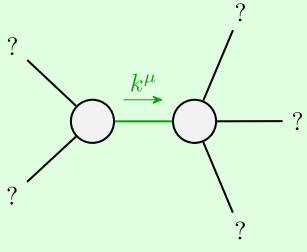
	$\mathcal{T}^{\#1}_{2^+}{}_{\alpha\beta}$
$\mathcal{T}^{\#1\dagger}_{2^+}{}^{\alpha\beta}$	$-\frac{2}{\alpha k^2}$

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

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



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



Quadratic pole	
Pole residue:	$\frac{1}{\beta} > 0$
Polarisations:	1

Unitarity conditions

$\alpha < 0$ && $\beta > 0$

(No massive particles)