Lagrangian density

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

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

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

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

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

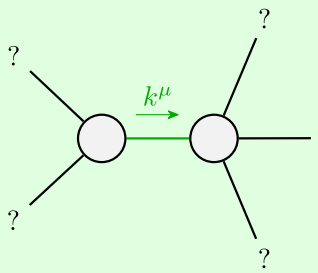
	$\mathcal{T}^{\#1}_{2^+}\dagger^{\alpha\beta}$
$\mathcal{T}^{\#1}_{2^+}{}^{\alpha\beta}$	$-\frac{2}{\alpha k^2}$

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

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

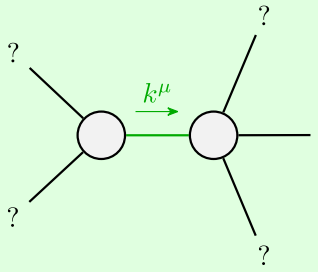
	$h^{\#1}_{1^-}\dagger^{\alpha}$
$h^{\#1}_{1^-}{}^{\alpha}$	0

(No massive particles)



Quadratic pole

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



Quadratic pole

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

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