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

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

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

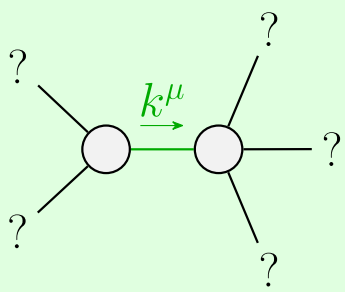
$\mathcal{T}^{\#1}_{1^-\,\alpha}$
$\mathcal{T}^{\#1}_{1^-}{}^{\dagger\alpha}$ 0

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

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

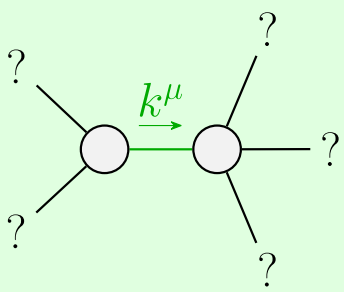
Source constraints	#
SO(3) irreps	
$\mathcal{T}^{\#2}_{0^+} == 0$	1
$\mathcal{T}^{\#1\,\alpha}_{1^-} == 0$	3
Total #:	4

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



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)