Lagrangian density

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

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

Source constraints

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

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

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

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

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

$\mathcal{T}^{\#1}_{0^+}$ †	$4\,\alpha\,k^2$	$\sqrt{3}\,\alpha\,k^2$
$\mathcal{T}^{\#2}_{0^+}$ †	$\sqrt{3}\,\alpha\,k^2$	0

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

$h^{\#1}_{0^+}$ †	0	$\frac{1}{\sqrt{3}\,\alpha\,k^2}$
$h^{\#2}_{0^+}$ †	$\frac{1}{\sqrt{3}\,\alpha\,k^2}$	$-\frac{4}{3\,\alpha\,k^2}$

$\mathcal{T}^{\#1}_{2^+\,\alpha\beta}$

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

$h^{\#1}_{2^+\,\alpha\beta}$

$h^{\#1}_{2^+}{}^{\alpha\beta}$ †	$\alpha\,k^2$

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

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

Quadratic pole

Pole residue:	$\frac{1}{\alpha} > 0$
Polarisations:	3

Unitarity conditions

$\alpha > 0$

(No massive particles)