Lagrangian density

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

Source constraints

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

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

$\frac{1}{\alpha k^2}$	0
0	0

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

αk^2	0
0	0

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

0

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

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

$-\frac{2}{\alpha k^2}$

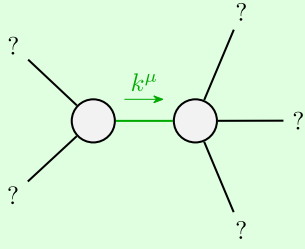
$h^{\#1}_{2^+\,\alpha\beta}$

$h^{\#1}_{2^+}{}^{\alpha\beta}$ †

$-\frac{\alpha k^2}{2}$

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

0



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

Unitarity conditions
$\alpha < 0$

(No massive particles)