Lagrangian density

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

Source constraints

SO(3) irreps	#
$\mathcal{T}^{\#2}_{0^+} == 0$	1
$\mathcal{T}^{\#1\,\alpha}_{1^-} == 0$	3
$\mathcal{T}^{\#1\,\alpha\beta}_{2^+} == 0$	5
Total #:	9

	$\mathcal{T}^{\#1}_{0^+}$	$\mathcal{T}^{\#2}_{0^+}$
$\mathcal{T}^{\#1}_{0^+}\,\dagger$	$-\frac{1}{3\,\alpha\,k^4}$	0
$\mathcal{T}^{\#2}_{0^+}\,\dagger$	0	0

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

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

	$h^{\#1}_{2^+}{}^{\alpha\beta}$
$h^{\#1}_{2^+}\,\dagger^{\alpha\beta}$	0

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

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

(No massless particles)

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Unitarity conditions

True