Particle spectrograph

Wave operator and propagator

	$0^+_{\#1}\mathcal{T}$	$0^+_{\#2}\mathcal{T}$	$1^-_{\#1}\mathcal{T}^{\alpha}$	$1^-_{\#1}h$	$0^+_{\#1}h$	$2^+_{\#1}h^{\alpha\beta}$	$2^+_{\#1}\mathcal{T}^{\alpha\beta}$
$0^+_{\#1}\mathcal{T}$	$\frac{1}{\alpha\, k^2}$	$-\frac{\sqrt{3}}{\alpha\, k^2}$					
$0^+_{\#2}\mathcal{T}$	$-\frac{\sqrt{3}}{\alpha\, k^2}$	$\frac{\alpha-3\,\beta}{\alpha\,(\alpha+\beta)\,k^2}$					
$1^-_{\#1}\mathcal{T}^{\alpha}$			0				
$1^-_{\#1}h$				0			
$0^+_{\#1}h$							
$2^+_{\#1}h^{\alpha\beta}$							$-\frac{\alpha\, k^2}{2}$
$2^+_{\#1}\mathcal{T}^{\alpha\beta}$	$-\frac{1}{2}(\alpha-3\,\beta)\,k^2$	$\frac{1}{2}\sqrt{3}\,(-\alpha+\beta)\,k^2$					
$0^+_{\#1}h$							
$0^+_{\#2}h$	$\frac{1}{2}\sqrt{3}\,(-\alpha+\beta)\,k^2$	$\frac{1}{2}\,(-\alpha+\beta)\,k^2$					

Spin-parity form	Covariant form	Multiplicities
$1^-_{\#1}\mathcal{T}^{\alpha} == 0$	$\partial_\chi\partial_\beta\partial^\alpha\mathcal{T}^{\beta\chi} == \partial_\chi\partial^\chi\partial_\beta\mathcal{T}^{\alpha\beta}$	3
Total expected gauge generators:		3

$$\mathcal{S} == \iiint\!\!\int \left(h^{\alpha\beta}\ \mathcal{T}_{\alpha\beta} + \frac{1}{2}\,\beta\ \partial_\beta h^{\chi}{}_{\chi}\ \partial^\beta h^{\alpha}{}_{\alpha} + \alpha\,(\partial_\alpha h^{\alpha\beta}\ \partial_\chi h_\beta{}^{\chi} - \partial^\beta h^{\alpha}{}_{\alpha}\ \partial_\chi h_\beta{}^{\chi} - \frac{1}{2}\,\partial_\chi h_{\alpha\beta}\ \partial^\chi h^{\alpha\beta})\right)[t, x, y, z]\, dl\ z\ dl\ y\ dl\ x$$

Massive and massless spectra

(No particles)

Massless particle

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

Massless particle

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

Unitarity conditions