Particle spectrograph

Wave operator and propagator

Spin-parity form	Covariant form	Multiplicities
$0^{+}\#2\ \mathcal{T} == 0$	$\partial_\beta\partial_\alpha\mathcal{T}^{\alpha\beta} == 0$	1
$1^{-}\#1\ \mathcal{T}^{\alpha} == 0$	$\partial_\chi\partial_\beta\partial^\alpha\mathcal{T}^{\beta\chi} == \partial_\chi\partial^\chi\partial_\beta\mathcal{T}^{\alpha\beta}$	3
Total expected gauge generators:		4

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

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

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

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

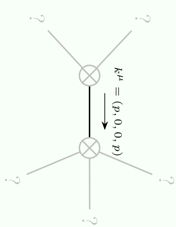
	$2^{+}\#1\ \mathcal{T}_{\alpha\beta}$
$2^{+}\#1\ \mathcal{T}^{\dagger\alpha\beta}$	$-\frac{2}{\alpha k^2}$

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

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

Massive and massless spectra

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



(No particles)

Unitarity conditions