Particle spectrograph

Wave operator and propagator

Spin-parity form	Covariant form	Multiplicities
$\omega^{\#2}_{0^+} == 0$	xAct\`xTensor\`Private\`Reconstruct[Symmetry[4, $-\partial^{\bullet 4}\partial^{\bullet 3}\omega^{\bullet 1 \bullet 2}$, {●1 → a, ●2 → b, ●3 → -a, ●4 → -b}, StrongGenSet[{3, 4}, GenSet[(3,4)]]], {1, {a, -a, b, -b}⟦{1, 3, 5, 2}⟧}] == 0	1
$\omega^{\#2}_{1^-}{}^{\alpha} == 0$	$\partial_\chi\partial_\beta\partial^\alpha\omega^{\beta\chi} == \partial_\chi\partial^\chi\partial_\beta\omega^{\alpha\beta}$	3
Total expected gauge generators:		4

	$\omega^{\#1}_{2^+\,\alpha\beta}$
$\omega^{\#1}_{2^+}\dagger^{\alpha\beta}$	$-\frac{4}{k^2\kappa}$

	$\theta^{\#1}_{2^+\,\alpha\beta}$
$\theta^{\#1}_{2^+}\dagger^{\alpha\beta}$	$-\frac{k^2\kappa}{4}$

	$\omega^{\#1}_{0^+}$	$\omega^{\#2}_{0^+}$
$\omega^{\#1}_{0^+}\dagger$	$-\frac{4}{k^2\kappa}$	0
$\omega^{\#2}_{0^+}\dagger$	0	0

	$\theta^{\#1}_{0^+}$	$\theta^{\#2}_{0^+}$
$\theta^{\#1}_{0^+}\dagger$	$-\frac{k^2\kappa}{4}$	0
$\theta^{\#2}_{0^+}\dagger$	0	0

	$\omega^{\#1}_{1^+\,\alpha\beta}$	$\omega^{\#1}_{1^-\,\alpha}$	$\omega^{\#2}_{1^-\,\alpha}$
$\omega^{\#1}_{1^+}\dagger^{\alpha\beta}$	$-\frac{4}{k^2\kappa}$	0	0
$\omega^{\#1}_{1^-}\dagger^{\alpha}$	0	$-\frac{4}{k^2\kappa}$	0
$\omega^{\#2}_{1^-}\dagger^{\alpha}$	0	0	0

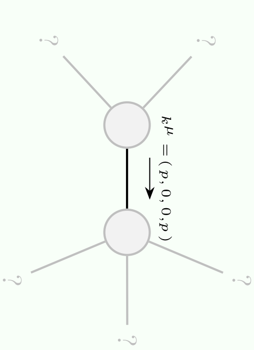
	$\theta^{\#1}_{1^+\,\alpha\beta}$	$\theta^{\#1}_{1^-\,\alpha}$	$\theta^{\#2}_{1^-\,\alpha}$
$\theta^{\#1}_{1^+}\dagger^{\alpha\beta}$	$-\frac{k^2\kappa}{4}$	0	0
$\theta^{\#1}_{1^-}\dagger^{\alpha}$	0	$-\frac{k^2\kappa}{4}$	0
$\theta^{\#2}_{1^-}\dagger^{\alpha}$	0	0	0

$$S == \iiiint \left(\theta^{\alpha\beta}\,\omega_{\alpha\beta} + \frac{1}{4}\kappa\left(\partial_\nu\theta_{\mu\rho} - \partial_\rho\theta_{\mu\nu}\right)\partial^\rho\theta^{\mu\nu}\right)[t, x, y, z]\, dz\, dy\, dx\, dt$$

Massive and massless spectra

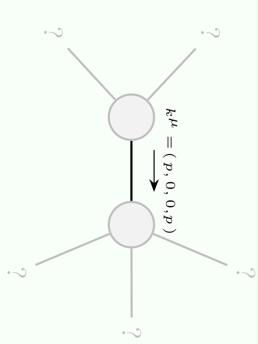
Pole residue:	$-\frac{1}{\kappa} > 0$
Polarisations:	6

Massless particle



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

Massless particle



(No massive particles)

Unitarity conditions

(Demonstrably impossible)