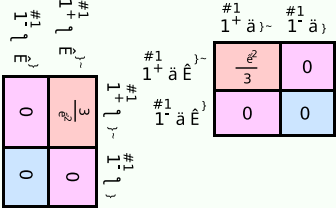


# Particle spectrograph

## Wave operator and propagator

Spin-parity form	Covariant form	Multiplicities
$\frac{1}{2}^+ \frac{1}{2}^- \epsilon_0$	$\bar{a}_- \frac{1}{2}^- \epsilon_0$	3
Total expected gauge generators:		3

$$\mathcal{U} = \epsilon \bar{G} G \bar{G} G \frac{1}{3} \frac{1}{2}^- \frac{1}{2}^- + \frac{1}{3} (-2 \bar{a}_- \bar{a}_- + \bar{a}_- \bar{a}_-) \bar{a}_- \bar{a}_- [I, \bar{O}, \bar{O}, \bar{O}] \bar{O} \bar{O} \bar{O}$$



## Massive and massless spectra

ShowMapThreadShownη1,ImageSize γ 2η2,η33,BaselinePosition γ Scaledn $\frac{\eta_4 \text{MaTeX`Private`$psfactor}}{\eta_3}$ xx&, 223 2128.0933, 2108.6553, 24.303933,ImageSize γ 1.3ImageSize x

Massless particle

Poleresidue:	$\frac{1}{2} > 0$
Polarisations:	1

(No massive particles)

## Unitarity conditions

$$+ 0$$