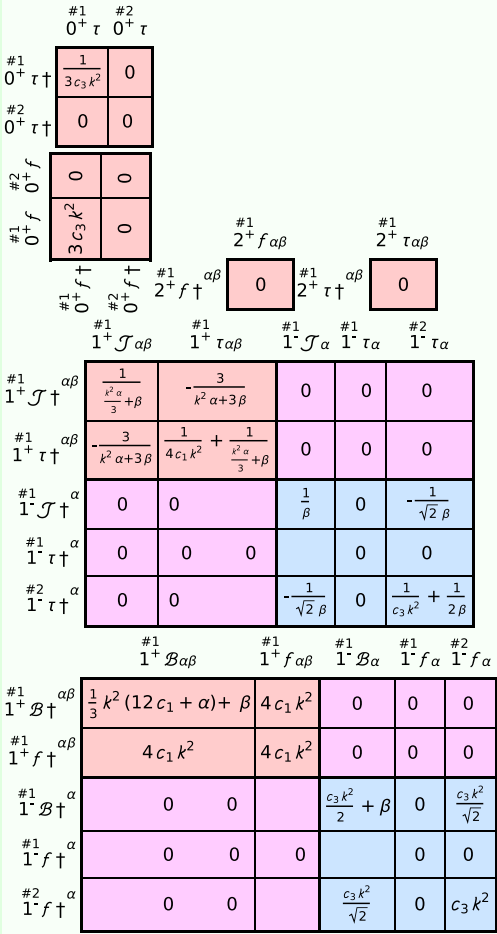


Wave operator and propagator

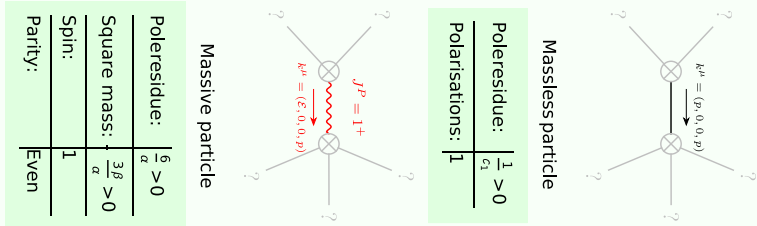
Spin-parity form	Covariant form	Multiplicities
$\#2$ $0^+ \tau = 0$	$\partial_\beta \partial_\alpha \tau^{a\beta} = 0$	1
$\#1$ $1^- \tau = 0$	$\partial_\chi \partial_\beta \partial_\alpha \tau^{\beta\chi} = \partial_\alpha \partial_\beta \tau^{\beta\alpha}$	3
$\#1$ $2^- \tau = 0$	$\begin{aligned} &\partial_\alpha \partial_\chi \partial_\beta \partial_\alpha \tau^{\chi\beta} + 2 \partial_\alpha \partial_\beta \partial_\alpha \tau^{\chi\alpha} + 3 \partial_\alpha \partial_\beta \partial_\chi \tau^{\alpha\beta} + 3 \partial_\alpha \partial_\beta \partial_\chi \tau^{\alpha\chi} + 3 \partial_\alpha \partial_\beta \partial_\chi \tau^{\beta\chi} + 3 \partial_\alpha \partial_\beta \partial_\chi \tau^{\chi\beta} + \\ &2 \eta^{\alpha\beta} \partial_\alpha \partial_\beta \partial_\chi \tau^{\chi\alpha} = 3 \partial_\alpha \partial_\beta \partial_\chi \tau^{\alpha\chi} + 3 \partial_\alpha \partial_\beta \partial_\chi \tau^{\beta\chi} + 3 \partial_\alpha \partial_\beta \partial_\chi \tau^{\chi\alpha} + 3 \partial_\alpha \partial_\beta \partial_\chi \tau^{\chi\beta} + \\ &3 \partial_\alpha \partial_\beta \partial_\chi \tau^{\alpha\chi} + 3 \partial_\alpha \partial_\beta \partial_\chi \tau^{\beta\chi} + 2 \eta^{\alpha\beta} \partial_\alpha \partial_\beta \partial_\chi \tau^{\chi\alpha} \end{aligned}$	5
Total expected gauge generators:		9

$$S =$$

$$\begin{aligned}
&\int d^4x \left(\beta \partial_\beta \partial_\alpha \partial_\gamma \partial_\delta \tau^{a\beta} + f^{a\beta} \tau_{a\beta} + g^{a\beta} \tau_{a\beta} + g^{a\beta} \tau_{a\beta} + c_3 (\partial_\beta \partial_\alpha \partial_\gamma \partial_\delta \tau^{a\beta} - 2 \partial_\beta \partial_\alpha \partial_\gamma \partial_\delta \tau^{a\beta} + \partial_\beta \partial_\alpha \partial_\gamma \partial_\delta \tau^{a\beta}) - \right. \\
&\quad \left. \partial_\alpha \partial_\beta \partial_\gamma \partial_\delta \tau^{a\beta} - 2 \partial_\beta \partial_\alpha \partial_\gamma \partial_\delta \tau^{a\beta} - \frac{1}{3} \partial_\alpha (2 \partial_\beta \partial_\gamma \partial_\delta \tau^{a\beta} - \partial_\beta \partial_\gamma \partial_\delta \tau^{a\beta}) + \right. \\
&\quad \left. 2 c_1 (2 \partial_\alpha \partial_\beta \partial_\gamma \partial_\delta \tau^{a\beta} - \partial_\alpha \partial_\beta \partial_\gamma \partial_\delta \tau^{a\beta} + 4 \partial_\alpha \partial_\beta \partial_\gamma \partial_\delta \tau^{a\beta} - \partial_\alpha \partial_\beta \partial_\gamma \partial_\delta \tau^{a\beta} - \right. \\
&\quad \left. 4 \partial_\alpha \partial_\beta \partial_\gamma \partial_\delta \tau^{a\beta} + \partial_\alpha \partial_\beta \partial_\gamma \partial_\delta \tau^{a\beta} - \partial_\alpha \partial_\beta \partial_\gamma \partial_\delta \tau^{a\beta} + 4 \partial_\alpha \partial_\beta \partial_\gamma \partial_\delta \tau^{a\beta} - \right. \\
&\quad \left. 4 \partial_\alpha \partial_\beta \partial_\gamma \partial_\delta \tau^{a\beta} + 2 \partial_\alpha \partial_\beta \partial_\gamma \partial_\delta \tau^{a\beta}) \right) [t, x, y, z] d^4x
\end{aligned}$$



Massive and massless spectra



Unitarity conditions