

PSALTer results panel

$$S = \iiint (\frac{1}{6} (6 t_{\textcolor{teal}{1}} \mathcal{A}^{\alpha\textcolor{teal}{i}}_{\textcolor{teal}{\alpha}} \mathcal{A}^{\theta}_{\textcolor{teal}{\theta}} + 6 \mathcal{A}^{\alpha\beta\chi} \sigma_{\alpha\beta\chi} \tau (\Delta + \mathcal{K})_{\alpha\beta} - 12 t_{\textcolor{teal}{1}} \mathcal{A}^{\theta}_{\alpha\textcolor{teal}{\theta}} \partial_{\textcolor{teal}{i}} f^{\alpha\textcolor{teal}{i}} + 12 t_{\textcolor{teal}{1}} \mathcal{A}^{\theta}_{\textcolor{teal}{i}\textcolor{teal}{\theta}} \partial' f^{\alpha}_{\alpha} - 6 t_{\textcolor{teal}{1}} \partial_{\textcolor{teal}{i}} f^{\theta}_{\theta} \partial' f^{\alpha}_{\alpha} - 6 t_{\textcolor{teal}{1}} \partial_{\textcolor{teal}{i}} f^{\alpha\textcolor{teal}{i}} \partial_{\theta} f^{\theta}_{\alpha} + 12 t_{\textcolor{teal}{1}} \partial' f^{\alpha}_{\alpha} \partial_{\theta} f^{\theta}_{\textcolor{teal}{i}} + \\ 6 r_{\textcolor{teal}{5}} \partial_{\textcolor{teal}{i}} \mathcal{A}^{\kappa}_{\theta\textcolor{teal}{\kappa}} \partial^{\theta} \mathcal{A}^{\alpha\textcolor{teal}{i}}_{\alpha} - 6 r_{\textcolor{teal}{5}} \partial_{\theta} \mathcal{A}^{\kappa}_{\textcolor{teal}{i}\textcolor{teal}{\kappa}} \partial^{\theta} \mathcal{A}^{\alpha\textcolor{teal}{i}}_{\alpha} + 4 t_{\textcolor{teal}{1}} \mathcal{A}_{\textcolor{teal}{i}\theta\alpha} \partial^{\theta} f^{\alpha\textcolor{teal}{i}} + 4 t_{\textcolor{teal}{2}} \mathcal{A}_{\textcolor{teal}{i}\theta\alpha} \partial^{\theta} f^{\alpha\textcolor{teal}{i}} - 4 t_{\textcolor{teal}{1}} \partial_{\alpha} f_{\textcolor{teal}{i}\theta} \partial^{\theta} f^{\alpha\textcolor{teal}{i}} + 2 t_{\textcolor{teal}{2}} \partial_{\alpha} f_{\textcolor{teal}{i}\theta} \partial^{\theta} f^{\alpha\textcolor{teal}{i}} - 4 t_{\textcolor{teal}{1}} \partial_{\alpha} f_{\theta\textcolor{teal}{i}} \partial^{\theta} f^{\alpha\textcolor{teal}{i}} - t_{\textcolor{teal}{2}} \partial_{\alpha} f_{\theta\textcolor{teal}{i}} \partial^{\theta} f^{\alpha\textcolor{teal}{i}} + \\ 2 t_{\textcolor{teal}{1}} \partial_{\textcolor{teal}{i}} f_{\alpha\theta} \partial^{\theta} f^{\alpha\textcolor{teal}{i}} - t_{\textcolor{teal}{2}} \partial_{\textcolor{teal}{i}} f_{\alpha\theta} \partial^{\theta} f^{\alpha\textcolor{teal}{i}} + 4 t_{\textcolor{teal}{1}} \partial_{\theta} f_{\alpha\textcolor{teal}{i}} \partial^{\theta} f^{\alpha\textcolor{teal}{i}} + t_{\textcolor{teal}{2}} \partial_{\theta} f_{\alpha\textcolor{teal}{i}} \partial^{\theta} f^{\alpha\textcolor{teal}{i}} + 2 t_{\textcolor{teal}{1}} \partial_{\theta} f_{\textcolor{teal}{i}\alpha} \partial^{\theta} f^{\alpha\textcolor{teal}{i}} - t_{\textcolor{teal}{2}} \partial_{\theta} f_{\textcolor{teal}{i}\alpha} \partial^{\theta} f^{\alpha\textcolor{teal}{i}} + 2 (t_{\textcolor{teal}{1}} + t_{\textcolor{teal}{2}}) \mathcal{A}_{\alpha\textcolor{teal}{i}\theta} (\mathcal{A}^{\alpha\textcolor{teal}{i}\theta} + 2 \partial^{\theta} f^{\alpha\textcolor{teal}{i}}) + \\ 2 \mathcal{A}_{\alpha\theta\textcolor{teal}{i}} ((t_{\textcolor{teal}{1}} - 2 t_{\textcolor{teal}{2}}) \mathcal{A}^{\alpha\textcolor{teal}{i}\theta} + 2 (2 t_{\textcolor{teal}{1}} - t_{\textcolor{teal}{2}}) \partial^{\theta} f^{\alpha\textcolor{teal}{i}}) - 6 r_{\textcolor{teal}{5}} \partial_{\alpha} \mathcal{A}^{\alpha\textcolor{teal}{i}\theta} \partial_{\kappa} \mathcal{A}^{\kappa}_{\textcolor{teal}{i}\textcolor{teal}{\theta}} + 12 r_{\textcolor{teal}{5}} \partial^{\theta} \mathcal{A}^{\alpha\textcolor{teal}{i}}_{\alpha} \partial_{\kappa} \mathcal{A}^{\kappa}_{\textcolor{teal}{i}\textcolor{teal}{\theta}} + 6 r_{\textcolor{teal}{5}} \partial_{\alpha} \mathcal{A}^{\alpha\textcolor{teal}{i}\theta} \partial_{\kappa} \mathcal{A}^{\kappa}_{\theta\textcolor{teal}{i}} - 12 r_{\textcolor{teal}{5}} \partial^{\theta} \mathcal{A}^{\alpha\textcolor{teal}{i}}_{\alpha} \partial_{\kappa} \mathcal{A}^{\kappa}_{\theta\textcolor{teal}{i}})) [t, x, y, z] dz dy dx dt$$

Wave operator

| $0^+ \mathcal{A}^{\parallel}$ | $0^+ f^{\parallel}$ | $0^+ f^{\perp}$ | $0^- \mathcal{A}^{\parallel}$ | | | | | | | | | | |
|---|---|---|---|---|---|---|-----------------------------------|---|--|---|-------------------------------------|--|--|
| $0^+ \mathcal{A}^{\parallel} \dagger$ | $-t_{\textcolor{teal}{1}}$ | $i \sqrt{2} k t_{\textcolor{teal}{1}}$ | 0 | 0 | | | | | | | | | |
| $0^+ f^{\parallel} \dagger$ | $-i \sqrt{2} k t_{\textcolor{teal}{1}}$ | $-2 k^2 t_{\textcolor{teal}{1}}$ | 0 | 0 | | | | | | | | | |
| $0^+ f^{\perp} \dagger$ | 0 | 0 | 0 | 0 | | | | | | | | | |
| $0^- \mathcal{A}^{\parallel} \dagger$ | 0 | 0 | 0 | $t_{\textcolor{teal}{2}}$ | $1^+ \mathcal{A}^{\parallel}_{\alpha\beta}$ | $1^+ \mathcal{A}^{\perp}_{\alpha\beta}$ | $1^+ f^{\parallel}_{\alpha\beta}$ | $1^- \mathcal{A}^{\parallel}_{\alpha}$ | $1^- \mathcal{A}^{\perp}_{\alpha}$ | $1^- f^{\parallel}_{\alpha}$ | $1^- f^{\perp}_{\alpha}$ | | |
| $1^+ \mathcal{A}^{\parallel} \dagger^{\alpha\beta}$ | $\frac{1}{6} (6 k^2 r_{\textcolor{teal}{5}} + t_{\textcolor{teal}{1}} + 4 t_{\textcolor{teal}{2}})$ | $-\frac{t_{\textcolor{teal}{1}} - 2 t_{\textcolor{teal}{2}}}{3 \sqrt{2}}$ | $-\frac{i k (t_{\textcolor{teal}{1}} - 2 t_{\textcolor{teal}{2}})}{3 \sqrt{2}}$ | 0 | 0 | 0 | 0 | | | | | | |
| $1^+ \mathcal{A}^{\perp} \dagger^{\alpha\beta}$ | $\frac{t_{\textcolor{teal}{1}} - 2 t_{\textcolor{teal}{2}}}{3 \sqrt{2}}$ | $\frac{t_{\textcolor{teal}{1}} + t_{\textcolor{teal}{2}}}{3}$ | $\frac{1}{3} i k (t_{\textcolor{teal}{1}} + t_{\textcolor{teal}{2}})$ | 0 | 0 | 0 | 0 | | | | | | |
| $1^+ f^{\parallel} \dagger^{\alpha\beta}$ | $\frac{i k (t_{\textcolor{teal}{1}} - 2 t_{\textcolor{teal}{2}})}{3 \sqrt{2}}$ | $-\frac{1}{3} i k (t_{\textcolor{teal}{1}} + t_{\textcolor{teal}{2}})$ | $\frac{1}{3} k^2 (t_{\textcolor{teal}{1}} + t_{\textcolor{teal}{2}})$ | 0 | 0 | 0 | 0 | | | | | | |
| $1^- \mathcal{A}^{\parallel} \dagger^{\alpha}$ | 0 | 0 | 0 | $k^2 r_{\textcolor{teal}{5}} - \frac{t_{\textcolor{teal}{1}}}{2}$ | $\frac{t_{\textcolor{teal}{1}}}{\sqrt{2}}$ | 0 | $i k t_{\textcolor{teal}{1}}$ | | | | | | |
| $1^- \mathcal{A}^{\perp} \dagger^{\alpha}$ | 0 | 0 | 0 | $\frac{t_{\textcolor{teal}{1}}}{\sqrt{2}}$ | 0 | 0 | 0 | | | | | | |
| $1^- f^{\parallel} \dagger^{\alpha}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| $1^- f^{\perp} \dagger^{\alpha}$ | 0 | 0 | 0 | $-i k t_{\textcolor{teal}{1}}$ | 0 | 0 | 0 | $2^+ \mathcal{A}^{\parallel}_{\alpha\beta}$ | $2^+ f^{\parallel}_{\alpha\beta}$ | $2^- \mathcal{A}^{\parallel}_{\alpha\beta\chi}$ | | | |
| | | | | | | | | $2^+ \mathcal{A}^{\parallel} \dagger^{\alpha\beta}$ | $\frac{t_{\textcolor{teal}{1}}}{2}$ | $-\frac{i k t_{\textcolor{teal}{1}}}{\sqrt{2}}$ | 0 | | |
| | | | | | | | | $2^+ f^{\parallel} \dagger^{\alpha\beta}$ | $\frac{i k t_{\textcolor{teal}{1}}}{\sqrt{2}}$ | $k^2 t_{\textcolor{teal}{1}}$ | 0 | | |
| | | | | | | | | $2^- \mathcal{A}^{\parallel} \dagger^{\alpha\beta\chi}$ | 0 | 0 | $\frac{t_{\textcolor{teal}{1}}}{2}$ | | |

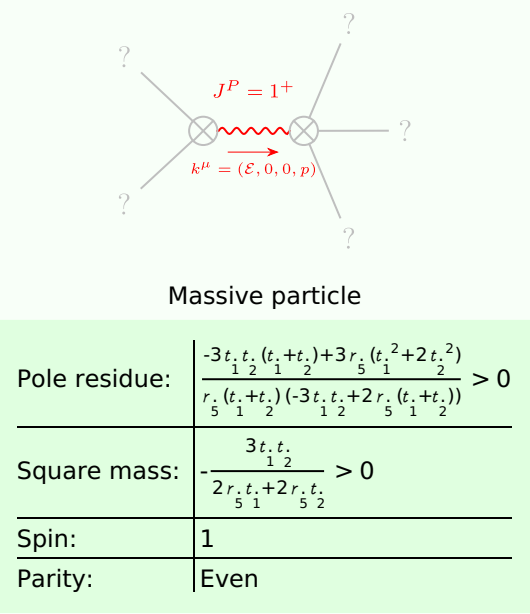
Saturated propagator

| $0^+ \sigma^{\parallel}$ | $0^+ \tau^{\parallel}$ | $0^+ \tau^{\perp}$ | $0^- \sigma^{\parallel}$ | | | | | | | | | | |
|----------------------------------|--|---|--|---|--|--|--|---|--|--|--|--|-------------------------------------|
| $0^+ \sigma^{\parallel} \dagger$ | $-\frac{1}{(1+2 k^2)^2 t_{\textcolor{teal}{1}}}$ | $\frac{i \sqrt{2} k}{(1+2 k^2)^2 t_{\textcolor{teal}{1}}}$ | 0 | 0 | | | | | | | | | |
| $0^+ \tau^{\parallel} \dagger$ | $\frac{i \sqrt{2} k}{(1+2 k^2)^2 t_{\textcolor{teal}{1}}}$ | $-\frac{2 k^2}{(1+2 k^2)^2 t_{\textcolor{teal}{1}}}$ | 0 | 0 | | | | | | | | | |
| $0^+ \tau^{\perp} \dagger$ | 0 | 0 | 0 | 0 | | | | | | | | | |
| $0^- \sigma^{\parallel} \dagger$ | 0 | 0 | 0 | $\frac{1}{t_{\textcolor{teal}{2}}}$ | $1^+ \sigma^{\parallel}_{\alpha\beta}$ | $1^+ \sigma^{\perp}_{\alpha\beta}$ | $1^+ \tau^{\parallel}_{\alpha\beta}$ | $1^- \sigma^{\parallel}_{\alpha}$ | $1^- \sigma^{\perp}_{\alpha}$ | $1^- \tau^{\parallel}_{\alpha}$ | $1^- \tau^{\perp}_{\alpha}$ | | |
| | $1^+ \sigma^{\parallel} \dagger^{\alpha\beta}$ | $\frac{2 (t_{\textcolor{teal}{1}} + t_{\textcolor{teal}{2}})}{3 t_{\textcolor{teal}{1}} t_{\textcolor{teal}{2}} + 2 k^2 r_{\textcolor{teal}{5}} (t_{\textcolor{teal}{1}} + t_{\textcolor{teal}{2}})}$ | $\frac{\sqrt{2} (t_{\textcolor{teal}{1}} - 2 t_{\textcolor{teal}{2}})}{(1+k^2) (3 t_{\textcolor{teal}{1}} t_{\textcolor{teal}{2}} + 2 k^2 r_{\textcolor{teal}{5}} (t_{\textcolor{teal}{1}} + t_{\textcolor{teal}{2}}))}$ | $\frac{i \sqrt{2} k (t_{\textcolor{teal}{1}} - 2 t_{\textcolor{teal}{2}})}{(1+k^2) (3 t_{\textcolor{teal}{1}} t_{\textcolor{teal}{2}} + 2 k^2 r_{\textcolor{teal}{5}} (t_{\textcolor{teal}{1}} + t_{\textcolor{teal}{2}}))}$ | 0 | 0 | 0 | 0 | | | | | |
| | $1^+ \sigma^{\perp} \dagger^{\alpha\beta}$ | $\frac{\sqrt{2} (t_{\textcolor{teal}{1}} - 2 t_{\textcolor{teal}{2}})}{(1+k^2) (3 t_{\textcolor{teal}{1}} t_{\textcolor{teal}{2}} + 2 k^2 r_{\textcolor{teal}{5}} (t_{\textcolor{teal}{1}} + t_{\textcolor{teal}{2}}))}$ | $\frac{6 k^2 r_{\textcolor{teal}{5}} + t_{\textcolor{teal}{1}} + 4 t_{\textcolor{teal}{2}}}{(1+k^2)^2 (3 t_{\textcolor{teal}{1}} t_{\textcolor{teal}{2}} + 2 k^2 r_{\textcolor{teal}{5}} (t_{\textcolor{teal}{1}} + t_{\textcolor{teal}{2}}))}$ | $\frac{i k (6 k^2 r_{\textcolor{teal}{5}} + t_{\textcolor{teal}{1}} + 4 t_{\textcolor{teal}{2}})}{(1+k^2)^2 (3 t_{\textcolor{teal}{1}} t_{\textcolor{teal}{2}} + 2 k^2 r_{\textcolor{teal}{5}} (t_{\textcolor{teal}{1}} + t_{\textcolor{teal}{2}}))}$ | 0 | 0 | 0 | 0 | | | | | |
| | $1^+ \tau^{\parallel} \dagger^{\alpha\beta}$ | $-\frac{i \sqrt{2} k (t_{\textcolor{teal}{1}} - 2 t_{\textcolor{teal}{2}})}{(1+k^2) (3 t_{\textcolor{teal}{1}} t_{\textcolor{teal}{2}} + 2 k^2 r_{\textcolor{teal}{5}} (t_{\textcolor{teal}{1}} + t_{\textcolor{teal}{2}}))}$ | $-\frac{i k (6 k^2 r_{\textcolor{teal}{5}} + t_{\textcolor{teal}{1}} + 4 t_{\textcolor{teal}{2}})}{(1+k^2)^2 (3 t_{\textcolor{teal}{1}} t_{\textcolor{teal}{2}} + 2 k^2 r_{\textcolor{teal}{5}} (t_{\textcolor{teal}{1}} + t_{\textcolor{teal}{2}}))}$ | $\frac{k^2 (6 k^2 r_{\textcolor{teal}{5}} + t_{\textcolor{teal}{1}} + 4 t_{\textcolor{teal}{2}})}{(1+k^2)^2 (3 t_{\textcolor{teal}{1}} t_{\textcolor{teal}{2}} + 2 k^2 r_{\textcolor{teal}{5}} (t_{\textcolor{teal}{1}} + t_{\textcolor{teal}{2}}))}$ | 0 | 0 | 0 | 0 | | | | | |
| | $1^- \sigma^{\parallel} \dagger^{\alpha}$ | 0 | 0 | 0 | 0 | $\frac{\sqrt{2}}{t_{\textcolor{teal}{1}} + 2 k^2 t_{\textcolor{teal}{1}}}$ | 0 | $\frac{2 i k}{t_{\textcolor{teal}{1}} + 2 k^2 t_{\textcolor{teal}{1}}}$ | | | | | |
| | $1^- \sigma^{\perp} \dagger^{\alpha}$ | 0 | 0 | 0 | 0 | $\frac{\sqrt{2}}{t_{\textcolor{teal}{1}} + 2 k^2 t_{\textcolor{teal}{1}}}$ | $\frac{-2 k^2 r_{\textcolor{teal}{5}} + t_{\textcolor{teal}{1}}}{(t_{\textcolor{teal}{1}} + 2 k^2 t_{\textcolor{teal}{1}})^2}$ | 0 | $\frac{i \sqrt{2} k (2 k^2 r_{\textcolor{teal}{5}} - t_{\textcolor{teal}{1}})}{(t_{\textcolor{teal}{1}} + 2 k^2 t_{\textcolor{teal}{1}})^2}$ | | | | |
| | $1^- \tau^{\parallel} \dagger^{\alpha}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | $1^- \tau^{\perp} \dagger^{\alpha}$ | 0 | 0 | 0 | 0 | $-\frac{2 i k}{t_{\textcolor{teal}{1}} + 2 k^2 t_{\textcolor{teal}{1}}}$ | $\frac{i \sqrt{2} k (2 k^2 r_{\textcolor{teal}{5}} - t_{\textcolor{teal}{1}})}{(t_{\textcolor{teal}{1}} + 2 k^2 t_{\textcolor{teal}{1}})^2}$ | 0 | $\frac{-4 k^4 r_{\textcolor{teal}{5}} + 2 k^2 t_{\textcolor{teal}{1}}}{(t_{\textcolor{teal}{1}} + 2 k^2 t_{\textcolor{teal}{1}})^2}$ | $2^+ \sigma^{\parallel}_{\alpha\beta}$ | $2^+ \tau^{\parallel}_{\alpha\beta}$ | $2^- \sigma^{\parallel}_{\alpha\beta\chi}$ | |
| | | | | | | | | | | $2^+ \sigma^{\parallel} \dagger^{\alpha\beta}$ | $\frac{2}{(1+2 k^2)^2 t_{\textcolor{teal}{1}}} - \frac{2 i \sqrt{2} k}{(1+2 k^2)^2 t_{\textcolor{teal}{1}}}$ | 0 | |
| | | | | | | | | | | $2^+ \tau^{\parallel} \dagger^{\alpha\beta}$ | $\frac{2 i \sqrt{2} k}{(1+2 k^2)^2 t_{\textcolor{teal}{1}}} - \frac{4 k^2}{(1+2 k^2)^2 t_{\textcolor{teal}{1}}}$ | 0 | |
| | | | | | | | | | | $2^- \sigma^{\parallel} \dagger^{\alpha\beta\chi}$ | 0 | 0 | $\frac{2}{t_{\textcolor{teal}{1}}}$ |

Source constraints

| Spin-parity form | Covariant form | Multiplicities |
|---|---|----------------|
| $0^+ \tau^{\perp} == 0$ | $\partial_{\beta} \partial_{\alpha} \tau (\Delta + \mathcal{K})^{\alpha\beta} == 0$ | 1 |
| $-2 i k 0^+ \sigma^{\parallel} + 0^+ \tau^{\parallel} == 0$ | $\partial_{\beta} \partial_{\alpha} \tau (\Delta + \mathcal{K})^{\alpha\beta} == \partial_{\beta} \partial^{\beta} \tau (\Delta + \mathcal{K})^{\alpha}_{\alpha} + 2 \partial_{\chi} \partial^{\chi} \partial_{\beta} \sigma^{\alpha}_{\alpha}{}^{\beta}$ | 1 |
| $2 i k 1^- \sigma^{\perp\alpha} + 1^- \tau^{\perp\alpha} == 0$ | $\partial_{\chi} \partial_{\beta} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\beta\chi} == \partial_{\chi} \partial^{\chi} \partial_{\beta} \tau (\Delta + \mathcal{K})^{\alpha\beta} + 2 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial_{\beta} \sigma^{\beta\alpha\chi}$ | 3 |
| $1^- \tau^{\parallel\alpha} == 0$ | $\partial_{\chi} \partial_{\beta} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\beta\chi} == \partial_{\chi} \partial^{\chi} \partial_{\beta} \tau (\Delta + \mathcal{K})^{\beta\alpha}$ | 3 |
| $i k 1^+ \sigma^{\perp\alpha\beta} + 1^+ \tau^{\parallel\alpha\beta} == 0$ | $\partial_{\chi} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\beta\chi} + \partial_{\chi} \partial^{\beta} \tau (\Delta + \mathcal{K})^{\chi\alpha} + \partial_{\chi} \partial^{\chi} \tau (\Delta + \mathcal{K})^{\alpha\beta} + 2 \partial_{\delta} \partial_{\chi} \partial^{\alpha} \sigma^{\chi\beta\delta} + 2 \partial_{\delta} \partial^{\delta} \partial_{\chi} \sigma^{\chi\alpha\beta} == \partial_{\chi} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\chi\beta} + \partial_{\chi} \partial^{\beta} \tau (\Delta + \mathcal{K})^{\alpha\chi} + \partial_{\chi} \partial^{\chi} \tau (\Delta + \mathcal{K})^{\beta\alpha} + 2 \partial_{\delta} \partial_{\chi} \partial^{\beta} \sigma^{\chi\alpha\delta}$ | 3 |
| $-2 i k 2^+ \sigma^{\parallel\alpha\beta} + 2^+ \tau^{\parallel\alpha\beta} == 0$ | $-i (4 \partial_{\delta} \partial_{\chi} \partial^{\beta} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\chi\delta} + 2 \partial_{\delta} \partial^{\delta} \partial^{\beta} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\chi}_{\chi} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\beta\chi} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\chi\beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\beta} \tau (\Delta + \mathcal{K})^{\alpha\chi} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\beta} \tau (\Delta + \mathcal{K})^{\chi\alpha} + \\ 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi} \tau (\Delta + \mathcal{K})^{\alpha\beta} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi} \tau (\Delta + \mathcal{K})^{\beta\alpha} + 4 i k^{\chi} \partial_{\epsilon} \partial_{\chi} \partial^{\beta} \partial^{\alpha} \sigma^{\delta}_{\delta}{}^{\epsilon} - 6 i k^{\chi} \partial_{\epsilon} \partial_{\delta} \partial_{\chi} \partial^{\alpha} \sigma^{\delta\beta\epsilon} - 6 i k^{\chi} \partial_{\epsilon} \partial_{\delta} \partial_{\chi} \partial^{\beta} \sigma^{\delta\alpha\epsilon} + \\ 6 i k^{\chi} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi} \sigma^{\alpha\beta\delta} + 6 i k^{\chi} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi} \sigma^{\beta\alpha\delta} + 2 \eta^{\alpha\beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi} \tau (\Delta + \mathcal{K})^{\chi\delta} - 2 \eta^{\alpha\beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\delta} \tau (\Delta + \mathcal{K})^{\chi}_{\chi} - 4 i \eta^{\alpha\beta} k^{\chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial_{\chi} \sigma^{\delta}_{\delta}{}^{\epsilon}) == 0$ | 5 |
| Total expected gauge generators: | | 16 |

Massive spectrum



Massless spectrum

(No particles)

Unitarity conditions

$$(t_{\textcolor{teal}{1}} < 0 \ \&\& \ (t_{\textcolor{teal}{2}} < 0 \ \&\& r_{\textcolor{teal}{5}} > 0) \ || \ (t_{\textcolor{teal}{2}} > -t_{\textcolor{teal}{1}} \ \&\& r_{\textcolor{teal}{5}} > 0)) \ || \ (t_{\textcolor{teal}{1}} > 0 \ \&\& -t_{\textcolor{teal}{1}} < t_{\textcolor{teal}{2}} < 0 \ \&\& r_{\textcolor{teal}{5}} > 0)$$