PSALTer results panel

$$S = \iiiint \left[\left(\frac{1}{4} \left(2 a_0 \mathcal{A}^\alpha{}_\alpha{}^\beta \mathcal{A}^\chi{}_{\beta\chi} + \mathcal{A}^{\alpha\beta\chi} \left(-2 a_0 \mathcal{A}_{\beta\chi\alpha} + 4 \mathcal{W}_{\alpha\beta\chi} \right) \right) + 4 \mathcal{T}^{-\alpha\beta} h_{\alpha\beta} - a_0 h^\chi{}_\chi \partial_\beta \mathcal{A}^\alpha{}_\alpha{}^\beta + a_0 h^\chi{}_\chi \partial_\beta \mathcal{A}^{\alpha\beta}{}_\alpha - 2 a_0 h_{\alpha\chi} \partial_\beta \mathcal{A}^{\alpha\beta\chi} + 2 a_0 h_{\beta\chi} \partial^\chi \mathcal{A}^\alpha{}_\alpha{}^\beta + c_2 \partial_\beta \mathcal{A}^\delta{}_{\delta\chi} \partial^\chi \mathcal{A}^\alpha{}_\alpha{}^\beta - c_2 \partial_\chi \mathcal{A}^\delta{}_{\delta\beta} \partial^\chi \mathcal{A}^\alpha{}_\alpha{}^\beta - c_2 \partial_\beta \mathcal{A}^{\alpha\beta\delta} \partial_\delta \mathcal{A}_{\beta\chi}{}^\chi + c_2 \partial_\beta \mathcal{A}^{\alpha\beta\chi} \partial_\delta \mathcal{A}_{\chi\alpha}{}^\delta + 2 c_2 \partial^\chi \mathcal{A}^\alpha{}_\alpha{}^\beta \partial_\delta \mathcal{A}_{\beta\chi}{}^\delta \right) \right][t, x, y, z] \, dz \, dy \, dx \, dt$$

Wave operator

Saturated propagator

Source constraints

| Spin-parity form	Covariant form	Multiplicities
$k\, {}^{0^+}\!\mathcal{W}_s{}^{\|} + 2\, k\, {}^{0^+}\!\mathcal{W}_s{}^{\|h} - 6\, i\, {}^{0^+}\!\mathcal{T}^\perp = 0$	$2\, \partial_\beta \partial_\alpha \mathcal{T}^{-\alpha\beta} + \partial_\chi \partial^\chi \partial_\alpha \mathcal{W}^{\alpha\beta}{}_\beta = \partial_\beta \partial_\alpha \partial_\chi \mathcal{W}^{\alpha\beta\chi}$	1
$k\, {}^{0^+}\!\mathcal{W}_s{}^{\perp} + 2\, i\, {}^{0^+}\!\mathcal{T}^\perp = 0$	$2\, \partial_\beta \partial_\alpha \mathcal{T}^{-\alpha\beta} = \partial_\chi \partial_\beta \partial_\alpha \mathcal{W}^{\alpha\beta\chi}$	1
$k\, {}^{1}\!\mathcal{W}_s{}^{\|h\alpha} - 6\, i\, {}^{1}\!\mathcal{T}^{-\alpha} = k \left(3\, {}^{1}\!\mathcal{W}_a{}^{\perp\alpha} + {}^{1}\!\mathcal{W}_s{}^{\|\alpha} \right)$	$2\, \partial_\chi \partial_\beta \partial^\alpha \mathcal{T}^{-\beta\chi} + \partial_\delta \partial^\delta \partial_\chi \partial_\beta \mathcal{W}^{\beta\alpha\chi} = 2\, \partial_\chi \partial^\chi \partial_\beta \mathcal{T}^{-\alpha\beta} + \partial_\delta \partial_\beta \partial^\alpha \partial_\chi \mathcal{W}^{\beta\chi\delta}$	3
Total expected gauge generators:		5

Massive spectrum
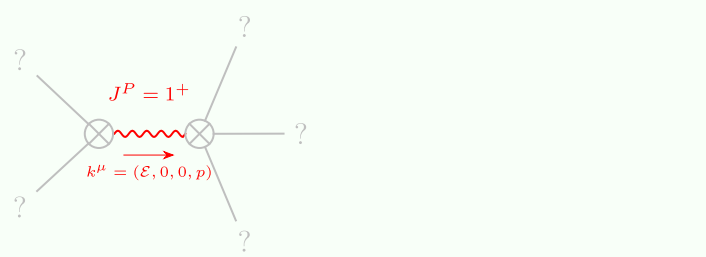
Massive particle

Pole residue:	$-\frac{6}{c_2} > 0$
Square mass:	$\frac{a_0}{c_2} > 0$
Spin:	1
Parity:	Even

Massless spectrum
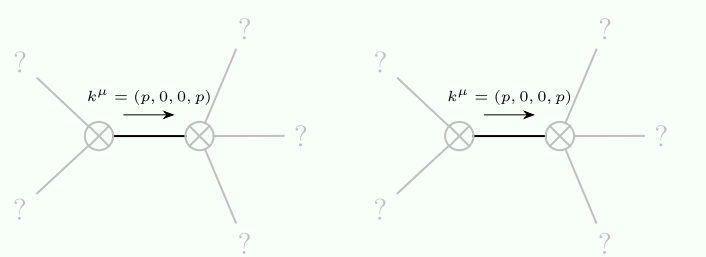
Massless particle

Pole residue:	$-\frac{p^2}{a_0} > 0$
Polarisations:	2

Massless particle

Pole residue:	$\frac{1}{c_2} + \frac{8 c_2 p^4}{a_0^2} > 0$
Polarisations:	2

Unitarity conditions

(Demonstrably impossible)