$\frac{1}{2}t_{1}\left(2\,\,\mathcal{R}^{\alpha_{i}}_{\phantom{\alpha_{i}}}\,\,\mathcal{R}^{\,\,\theta}_{,\,\,\theta}-4\,\,\mathcal{R}^{\,\,\theta}_{\alpha\,\,\theta}\,\,\partial_{i}f^{\alpha_{i}}+4\,\,\mathcal{R}^{\,\,\theta}_{,\,\,\theta}\,\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{i}}}-2\,\partial_{i}f^{\theta}_{\phantom{\theta_{i}}}\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{i}}}-2\,\partial_{i}f^{\alpha_{i}}\,\partial_{\theta}f^{\alpha_{i}}_{\phantom{\alpha_{i}}}+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{i}}}\partial_{\theta}f^{\alpha_{i}}_{\phantom{\alpha_{i}}}-2\,\partial_{\alpha}f^{\alpha_{i}}\partial_{\theta}f^{\alpha_{i}}_{\phantom{\alpha_{i}}}\right)$ $\partial_{\alpha}f_{_{\theta i}}\partial^{\theta}f^{\alpha i}+\partial_{i}f_{_{\alpha\theta}}\partial^{\theta}f^{\alpha i}+\partial_{\theta}f_{_{\alpha i}}\partial^{\theta}f^{\alpha i}+\partial_{\theta}f_{_{i\alpha}}\partial^{\theta}f^{\alpha i}+2\,\mathcal{A}_{_{\alpha\theta i}}\,(\,\mathcal{A}^{^{\alpha i\theta}}+2\,\partial^{\theta}f^{\alpha i})))[t,\,x,\,y,\,z]\,dz\,dy\,dx\,dt$ **Wave operator** $0^+\mathcal{A}^{\parallel} \uparrow \qquad \stackrel{t}{i} \qquad i \sqrt{2} kt_1 \qquad 0$ $0.+f + -i \sqrt{2} kt. -2k^2t.$ 0 $0 \quad k^{2} r. - t. \\ 2 \quad 1 \quad 1^{+} \mathcal{A}^{\parallel}{}_{\alpha\beta} \quad 1^{+} \mathcal{A}^{\perp}{}_{\alpha\beta} \quad 1^{+} f^{\parallel}{}_{\alpha\beta} \quad 1 \quad \mathcal{A}^{\parallel}{}_{\alpha} \quad 1 \quad \mathcal{A}^{\perp}{}_{\alpha} \quad 1 \quad f^{\parallel}{}_{\alpha} \quad 1 \quad f^{\perp}{}_{\alpha}$ $^{0}\mathcal{A}^{\parallel}$ † ikt. $\mathcal{A}^{\parallel} + 0$ $\frac{1}{3}\mathcal{A}^{\perp} + \alpha = 0$ $\frac{1}{2}f^{\parallel} + \alpha$ -ikt. 0 0 $\left[\stackrel{2^{+}}{\mathcal{A}} \right]_{\alpha\beta}^{\alpha\beta} \stackrel{2^{+}}{\mathcal{A}} f_{\alpha\beta}^{\beta} \stackrel{2^{-}}{\mathcal{A}} \left[\stackrel{\alpha}{\mathcal{A}} \right]_{\alpha\beta\chi}^{\alpha\beta\chi}$ $2^{+}\mathcal{A}^{\parallel} + \frac{\alpha\beta}{2} \qquad -\frac{ikt}{\sqrt{2}}$

 $\frac{1}{t} \sigma^{\perp} + \frac{\alpha \beta}{t} - \frac{\sqrt{2}}{t_{1} + k^{2} t_{1}} = \frac{1}{(1 + k^{2})^{2} t_{1}} = \frac{i k}{(1 + k^{2})^{2} t_{1}}$

 $1_{-7}^{+} + \alpha^{\beta} \left| \begin{array}{c} \frac{i\sqrt{2} \ k}{t_{1} + k^{2} t_{1}} & -\frac{i \ k}{(1 + k^{2})^{2} t_{1}} & \frac{k^{2}}{(1 + k^{2})^{2} t_{1}} \end{array} \right|$

 $\frac{1}{2}\sigma^{\parallel} + \alpha$

 $\frac{1}{2}\sigma^{\perp} \uparrow^{\alpha}$

 $1^{-}\tau^{\perp}$ $+^{\alpha}$

0

 $\mathcal{S} == \iiint (\mathcal{A}^{\alpha\beta\chi} \ \sigma_{\alpha\beta\chi} + f^{\alpha\beta} \ \tau (\Delta + \mathcal{K})_{\alpha\beta} + \frac{1}{3} r_{2} (4 \, \partial_{\beta}\mathcal{R}_{\alpha \iota \theta} - 2 \, \partial_{\beta}\mathcal{R}_{\alpha\theta\iota} + 2 \, \partial_{\beta}\mathcal{R}_{\iota \theta\alpha} - \partial_{\iota}\mathcal{R}_{\alpha\beta\theta} + \partial_{\theta}\mathcal{R}_{\alpha\beta\iota} - 2 \, \partial_{\theta}\mathcal{R}_{\alpha\iota\beta}) \, \partial^{\theta}\mathcal{R}^{\alpha\beta\iota} + 2 \, \partial_{\mu}\mathcal{R}_{\alpha\beta\iota} - 2 \, \partial_{\mu}\mathcal{R}_{\alpha\beta\iota} + 2 \, \partial_{\mu}\mathcal{R}_{\alpha\beta\iota} + 2 \, \partial_{\mu}\mathcal{R}_{\alpha\beta\iota} - 2 \, \partial_{\mu}\mathcal{R}_{\alpha\beta\iota} + 2 \, \partial_{\mu}\mathcal{R}_{\alpha\beta\iota} + 2 \, \partial_{\mu}\mathcal{R}_{\alpha\beta\iota} - 2 \, \partial_{\mu}\mathcal{R}_{\alpha\beta\iota} + 2 \, \partial_{\mu}\mathcal{R}_{\alpha$

0.+ τ¹ † 0.0

 $0^{+} \tau^{\parallel} + \frac{i \sqrt{2} k}{(1+2k^{2})^{2} t_{1}} - \frac{2k^{2}}{(1+2k^{2})^{2} t_{1}} = 0$

Saturated propagator

PSALTer results panel

	$2^{-}\sigma^{\parallel} + ^{\alpha\beta\chi}$	0	0	$\frac{2}{t_1}$
Source constra	ints			
Spin-parity form	Covariant form		Multipl	icities
$0^+_{\cdot}\tau^{\perp}==0$	$\partial_{\beta}\partial_{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\beta}==0$		1	
$-2 \bar{i} k^{0^{+}} \sigma^{\parallel} + {}^{0^{+}} \tau^{\parallel} == 0$	$\partial_{\beta}\partial_{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\beta} = \partial_{\beta}\partial^{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\alpha}_{\alpha} + 2\partial_{\chi}\partial^{\chi}\partial_{\beta}\sigma^{\alpha}_{\alpha}^{\beta}$		1	
$2 i k 1 \sigma^{\perp \alpha} + 1 \tau^{\perp \alpha} == 0$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\beta\chi} == \partial_{\chi}\partial^{\chi}\partial_{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\beta} + 2\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial_{\beta}\sigma^{\beta\alpha\chi}$		3	
1·τ" == 0	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\beta\chi}==\partial_{\chi}\partial^{\chi}\partial_{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\beta\alpha}$		3	
$\bar{l} k \stackrel{1^+}{\cdot} \sigma^{\perp}{}^{\alpha\beta} + \stackrel{1^+}{\cdot} \tau^{\parallel}{}^{\alpha\beta} == 0$	$\partial_{\chi}\partial^{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\beta\chi} + \partial_{\chi}\partial^{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\chi\alpha} + \partial_{\chi}\partial^{\chi}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\beta} + 2\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\chi\beta\delta} + 2\partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\chi\alpha\beta} = \partial_{\chi}\partial^{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\chi\beta} + \partial_{\chi}\partial^{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\chi} + \partial_{\chi}\partial^{\chi}\tau \left(\Delta + \mathcal{K}\right)^{\beta\alpha} + 2\partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\chi\alpha\delta}$	==	3	
$-2 i k 2^{+}_{\cdot} \sigma^{\parallel}^{\alpha\beta} + 2^{+}_{\cdot} \tau^{\parallel}^{\alpha\beta} = 0$	$ \begin{array}{c} -i \left(4 \partial_{\delta} \partial_{\chi} \partial^{\beta} \partial^{\alpha} \tau \left(\Delta + \mathcal{K} \right)^{\chi \delta} + 2 \partial_{\delta} \partial^{\delta} \partial^{\beta} \partial^{\alpha} \tau \left(\Delta + \mathcal{K} \right)^{\chi}_{\chi} - \\ 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \left(\Delta + \mathcal{K} \right)^{\beta \chi} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \left(\Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\beta} \tau \left(\Delta + \mathcal{K} \right)^{\alpha \chi} - \\ 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\beta} \tau \left(\Delta + \mathcal{K} \right)^{\chi \alpha} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi} \tau \left(\Delta + \mathcal{K} \right)^{\alpha \beta} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi} \tau \left(\Delta + \mathcal{K} \right)^{\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 \left(\Delta + \mathcal{K} \right)^{\chi \delta} - \\ 2 \eta^{\alpha \beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\delta} \tau \left(\Delta + \mathcal{K} \right)^{\chi}_{\chi} - 4 i \eta^{\alpha \beta} k^{\chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial_{\chi} \sigma^{\delta}_{\delta} \delta \right) = 0 \end{array} $		5	
Total expected gauge generators:			16	

Pole residue:

Square mass:

Massive particle

Massive spectrum

Spin: Odd Parity: **Massless spectrum**

(No particles)

Unitarity conditions r. < 0 &&t. < 0