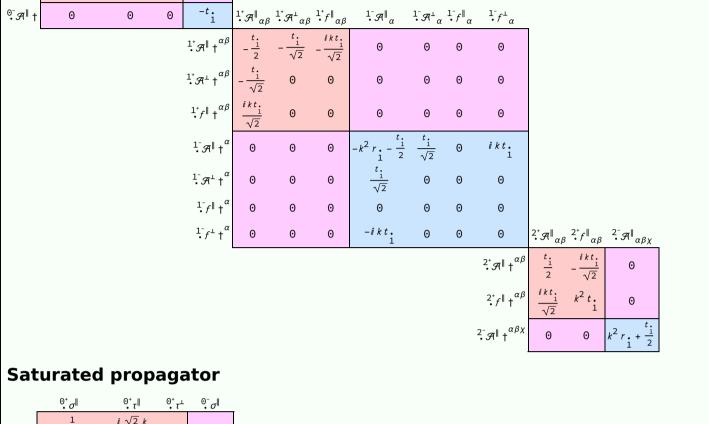
$\partial_{\theta}\mathcal{R}_{,\ \beta}^{\ \theta} + 2\;\partial_{\beta}\mathcal{R}_{\alpha,i\,\theta}^{\ \alpha\beta\,i} \\ \partial^{\theta}\mathcal{R}^{\alpha\beta\,i} - \partial_{\beta}\mathcal{R}_{\alpha\theta\,i}^{\ \alpha\beta\,i} + 4\;\partial_{\beta}\mathcal{R}_{,\,\theta\alpha}^{\ \alpha\beta\,i} + \partial_{i}\mathcal{R}_{\alpha\beta\theta}^{\ \alpha\beta\,i} + \partial_{i}\mathcal{R}_{\alpha\beta\theta}^{\ \alpha\beta\,i} - \partial_{\theta}\mathcal{R}_{\alpha\beta\,i}^{\ \alpha\beta\,i} - \partial_{\theta}\mathcal{R}_{\alpha,i\,\beta}^{\ \alpha\beta\,i} \\ \partial^{\theta}\mathcal{R}^{\alpha\beta\,i} - \partial_{\theta}\mathcal{R}_{\alpha\beta\,i}^{\ \alpha\beta\,i} - \partial_{\theta}\mathcal{R}_{\alpha,i\,\beta}^{\ \alpha\beta\,i} - \partial_{\theta}\mathcal{R}_{\alpha,$ $\frac{1}{2}t_{1}\left(2\,\,\mathcal{R}^{\alpha_{1}}_{\phantom{\alpha_{1}}\alpha}\,\,\mathcal{R}^{\phantom{\alpha_{1}}\theta}_{\phantom{\alpha_{1}}\theta}-4\,\,\mathcal{R}^{\phantom{\alpha_{1}}\theta}_{\phantom{\alpha_{1}}\alpha}\,\partial_{i}f^{\alpha_{i}}+4\,\,\mathcal{R}^{\phantom{\alpha_{1}}\theta}_{\phantom{\alpha_{1}}\theta}\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}-2\,\partial_{i}f^{\theta}_{\phantom{\alpha_{1}}\theta}\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}-2\,\partial_{i}f^{\alpha_{1}}\,\partial_{\theta}f^{\alpha_{1}}_{\phantom{\alpha_{1}}\alpha}+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\beta}_{\phantom{\beta_{1}}\alpha}-2\,\partial_{\alpha}f_{\phantom{\alpha_{1}}\theta}\,\partial^{\theta}f^{\alpha_{1}}-2\,\partial_{\alpha}f_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha}_{\phantom{\alpha_{1}}\alpha}\,\partial_{\theta}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha_{1}}\alpha+4\,\partial^{i}f^{\alpha_{1}}\alpha+4$ $\partial_{\alpha}f_{\theta_{i}}\partial^{\theta}f^{\alpha_{i}} + \partial_{i}f_{\alpha\theta}\partial^{\theta}f^{\alpha_{i}} + \partial_{\theta}f_{\alpha_{i}}\partial^{\theta}f^{\alpha_{i}} + \partial_{\theta}f_{\alpha}\partial^{\theta}f^{\alpha_{i}} + 2 \,\,\mathcal{A}_{\alpha\theta_{i}} \left(\mathcal{A}^{\alpha_{i}\theta} + 2 \,\partial^{\theta}f^{\alpha_{i}}\right)\right)\left[t\,,\,x\,,\,y\,,\,z\right] \,dz\,dy\,dx\,dt$ Wave operator

${}^{0^{\scriptscriptstyle +}}_{\scriptscriptstyle \bullet}\mathcal{R}^{\parallel}$ † $0^{+}_{f}\parallel_{\dagger} -i \sqrt{2} kt$ $-2 k^{2} t$ 0

 0^+f^{\perp} †

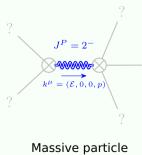
PSALTer results panel



0	0	0	$-\frac{1}{t_{1}}$	$^{1^{+}}\sigma^{\parallel}_{\alpha\beta}$	$^{1^{+}}_{\bullet}\sigma^{\perp}_{\alpha\beta}$	$\left\ 1^{+}_{\bullet} 1^{\parallel} \right\ _{\alpha\beta}$	${\stackrel{1^-}{\cdot}}\sigma^_lpha$	1 $^{-}$ σ^{\perp} $_{\alpha}$	$1^{-}_{\bullet}\tau^{\parallel}_{\alpha}$	$^{1^{-}}_{\bullet}\tau^{\perp}{}_{\alpha}$			
			$^{1^{+}}\sigma^{\parallel}$ † $^{\alpha\beta}$	0	$-\frac{\sqrt{2}}{t_{i}+k^{2}t_{i}}$	$-\frac{t\sqrt{2}k}{t_1+k^2t_1}$	0	0	0	0			
						_	0		0	0			
			$^{1^{+}}\tau^{\parallel}\uparrow^{lphaeta}$	$\frac{i\sqrt{2} k}{t \cdot k^2 t}$	$-\frac{ik}{(1+k^2)^2t}$	$\frac{k^2}{\left(1+k^2\right)^2t_{\frac{1}{2}}}$	0	0	0	0			
			$^{1^{-}}\sigma^{\parallel}$ † $^{\alpha}$	0	0	0	0	$\frac{\sqrt{2}}{t_{i}+2 k^{2} t_{i}}$	0	$\frac{2 i k}{t_1 + 2 k^2 t_1}$			
			1 $^{-}$ σ^{\perp} \dagger^{α}	0	0	0	$\frac{\sqrt{2}}{t_{1}+2k^{2}t_{1}}$	$\frac{2 k^2 r_1 + t_1}{\left(t_1 + 2 k^2 t_1\right)^2}$	0	$\frac{i \sqrt{2} k \left(2 k^2 r_1 + t_1\right)}{\left(t_1 + 2 k^2 t_1\right)^2}$			
			$1^{-}_{\bullet} 1^{\parallel} 1^{\alpha}$	0	0	0	0	0	0	0			
			$\dot{\bar{\tau}}$ τ^{\perp} $\dot{\tau}^{\alpha}$	0	0	0	$-\frac{2ik}{t_{i}+2k^{2}t_{i}}$	$-\frac{i \sqrt{2} k \left(2 k^2 r_1 + t_1\right)}{\left(t_1 + 2 k^2 t_1\right)^2}$	0	$\frac{2 k^2 \left(2 k^2 r_1 + t_1\right)}{\left(t_1 + 2 k^2 t_1\right)^2}$	$^{2^{+}}\sigma^{\parallel}{}_{\alpha\beta}$	$2^+_{\bullet} \tau^{\parallel}_{\alpha\beta}$	$^{2^{-}}\sigma^{\parallel}_{\alpha\beta\chi}$
			·							$^{2^{+}}_{\bullet}\sigma^{\parallel}$ † $^{\alpha\beta}$	$\frac{2}{(1+2k^2)^2t}$	$-\frac{2 i \sqrt{2 k}}{(1+2 k^2)^2 t}$	0
												$\frac{4 k^2}{\left(1+2 k^2\right)^2 t_{i}}$	0
										$^{2^{-}}\sigma^{\parallel}$ † $^{\alpha\beta\chi}$	0	0	$\frac{2}{2 k^2 r_{i} + t_{i}}$
ce co	nstrai	nts	3										
				$ \begin{array}{ccc} 1^{+}\sigma^{\parallel} + ^{\alpha\beta} \\ 1^{+}\sigma^{\perp} + ^{\alpha\beta} \\ 1^{+}\tau^{\parallel} + ^{\alpha\beta} \\ 1^{-}\sigma^{\parallel} + ^{\alpha} \end{array} $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Spin-parity form	Covariant form	Multiplicities
^{Θ+} τ [⊥] == Θ	$\partial_{\beta}\partial_{\alpha\tau} \left(\Delta + \mathcal{K}\right)^{\alpha\beta} == 0$	1
$-2 i k \cdot \sigma^{\parallel} + \cdot \tau^{\parallel} = 0$	$\partial_{\beta}\partial_{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\beta} = \partial_{\beta}\partial^{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\alpha}_{\alpha} + 2\partial_{\chi}\partial^{\chi}\partial_{\beta}\sigma^{\alpha}_{\alpha}^{\beta}$	1
$2 i k \frac{1}{\cdot} \sigma^{\perp}^{\alpha} + \frac{1}{\cdot} \tau^{\perp}^{\alpha} == 0$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}{}_{\tau}\left(\Delta+\mathcal{K}\right)^{\beta\chi} = \partial_{\chi}\partial^{\chi}\partial_{\beta\tau}\left(\Delta+\mathcal{K}\right)^{\alpha\beta} + 2\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial_{\beta}\sigma^{\beta\alpha\chi}$	3
1 _• τ α == Θ	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\beta\chi} == \partial_{\chi}\partial^{\chi}\partial_{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\beta\alpha}$	3
$i k i \cdot \sigma^{\perp} \alpha^{\beta} + i \cdot \tau^{\parallel} \alpha^{\beta} = 0$	$\partial_{\chi}\partial^{\alpha}\tau \left(\Delta+\mathcal{K}\right)^{\beta\chi} + \partial_{\chi}\partial^{\beta}\tau \left(\Delta+\mathcal{K}\right)^{\chi\alpha} + \partial_{\chi}\partial^{\chi}\tau \left(\Delta+\mathcal{K}\right)^{\alpha\beta} + 2 \partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\chi\beta\delta} + 2 \partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\chi\alpha\beta} = =$	3
	$\partial_{\chi}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\chi\beta}+\partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\chi}+\partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\beta\alpha}+2\partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\chi\alpha\delta}$	
$-2 i k \frac{2^+ \sigma}{2^+ \sigma} \ ^{\alpha \beta} + \frac{2^+ \tau}{2^+ \tau} \ ^{\alpha \beta} = 0$	$-i\left(4\ \partial_{\delta}\partial_{\chi}\partial^{\beta}\partial^{\alpha}\tau\ (\Delta+\mathcal{K})^{\chi\delta} + 2\ \partial_{\delta}\partial^{\delta}\partial^{\beta}\partial^{\alpha}\tau\ (\Delta+\mathcal{K})^{\chi}_{\ \chi} - 3\ \partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau\ (\Delta+\mathcal{K})^{\beta\chi} - 3\ \partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau\ (\Delta+\mathcal{K})^{\chi\beta} - 3\ \partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\beta}\tau\ (\Delta+\mathcal{K})^{\alpha\chi} - 3\ \partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau\ (\Delta+\mathcal{K})^{\alpha\chi} - 3\ \partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau\ (\Delta+\mathcal{K})^{\alpha\chi} - 3\ \partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau\ (\Delta+\mathcal{K})^{\chi\beta} - 3\ \partial_{\delta}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\tau\ (\Delta+\mathcal{K})^{\chi\beta} - 3\ \partial_{\delta}\partial^{\alpha}\partial_{\chi}\partial$	5
	$3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\beta} _{\tau} (\Delta + \mathcal{K})^{\chi \alpha} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi} _{\tau} (\Delta + \mathcal{K})^{\alpha \beta} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi} _{\tau} (\Delta + \mathcal{K})^{\beta \alpha} + 4 i k^{\chi} \partial_{\epsilon} \partial_{\chi} \partial^{\beta} \partial^{\alpha} \sigma^{\delta}_{ \delta} -$	
	$6 \ i \ k^X \ \partial_{\epsilon}\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\delta\beta\epsilon} - 6 \ i \ k^X \ \partial_{\epsilon}\partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\delta\alpha\epsilon} + 6 \ i \ k^X \ \partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial_{\chi}\sigma^{\alpha\beta\delta} + 6 \ i \ k^X \ \partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial_{\chi}\sigma^{\beta\alpha\delta} +$	
	$2 \eta^{\alpha\beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi\tau} (\Delta + \mathcal{K})^{\chi\delta} - 2 \eta^{\alpha\beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\delta}_{\tau} (\Delta + \mathcal{K})^{\chi}_{\chi} - 4 i \eta^{\alpha\beta} k^{\chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial_{\chi} \sigma^{\delta}_{\delta} \stackrel{\epsilon}{\circ} = 0$	
Total expected gauge	generators:	16

Massive spectrum



Pole residue: $\left| -\frac{1}{x} \right| > 0$

	r.					
Square mass:	$-\frac{\frac{t_{\cdot}}{1}}{2r_{\cdot}} > 0$					
Spin:	2					
Parity:	Odd					
Massless spectrum						

(No particles)

Unitarity conditions

r. < 0 && t. > 0