$\mathcal{S} == \iiint \left(\frac{1}{6} \left(-4 \, t_{.3} \, \mathcal{A}^{\alpha \prime}_{ \alpha} \, \mathcal{A}^{ \theta}_{ \theta} + 6 \, \mathcal{A}^{\alpha \beta \chi} \, \sigma_{\alpha \beta \chi} + 6 \, f^{\alpha \beta} \, \tau \left(\Delta + \mathcal{K}\right)_{\alpha \beta} + 8 \, t_{.3} \, \mathcal{A}^{ \theta}_{ \theta} \, \partial_{\imath} f^{\alpha \imath} - 15 \, r_{.3} \, \partial_{\beta} \mathcal{R}^{ \theta}_{ \theta} \, \partial^{\imath} \mathcal{A}^{\alpha \beta}_{ \alpha} + 6 \, f^{\alpha \beta} \, \tau \left(\Delta + \mathcal{K}\right)_{\alpha \beta} + 8 \, t_{.3} \, \mathcal{A}^{ \theta}_{ \theta} \, \partial_{\imath} f^{\alpha \imath} - 15 \, r_{.3} \, \partial_{\beta} \mathcal{R}^{ \theta}_{ \theta} \, \partial^{\imath} \mathcal{R}^{\alpha \beta}_{ \theta} + 6 \, f^{\alpha \beta} \, \tau \left(\Delta + \mathcal{K}\right)_{\alpha \beta} + 8 \, t_{.3} \, \mathcal{R}^{ \theta}_{ \theta} \, \partial_{\imath} f^{\alpha \imath} - 15 \, r_{.3} \, \partial_{\beta} \mathcal{R}^{ \theta}_{ \theta} \, \partial^{\imath} \mathcal{R}^{\alpha \beta}_{ \theta} + 6 \, f^{\alpha \beta} \, \tau \left(\Delta + \mathcal{K}\right)_{\alpha \beta} + 8 \, t_{.3} \, \mathcal{R}^{\alpha \beta}_{ \theta} \, \partial_{\imath} f^{\alpha \imath} - 15 \, r_{.3} \, \partial_{\beta} \mathcal{R}^{\beta \beta}_{ \theta} \, \partial^{\imath} \mathcal{R}^{\alpha \beta}_{ \theta} + 6 \, f^{\alpha \beta} \, \tau \left(\Delta + \mathcal{K}\right)_{\alpha \beta} + 8 \, t_{.3} \, \mathcal{R}^{\alpha \beta}_{ \theta} \, \partial_{\imath} f^{\alpha \prime} - 15 \, r_{.3} \, \partial_{\beta} \mathcal{R}^{\beta \beta}_{ \theta} \, \partial^{\imath} \mathcal{R}^{\alpha \beta}_{ \theta} + 6 \, f^{\alpha \beta} \, \mathcal{R}^{\alpha \beta}_{ \theta} + 6 \, f^{\alpha \beta}_{ \theta} \, \partial_{\imath} f^{\alpha \prime}_{ \theta} + 6 \, f^{\alpha \beta}_{ \theta} \, \partial_{\imath} f^{\alpha \prime}_{ \theta} + 6 \, f^{\alpha \beta}_{ \theta} \, \partial_{\imath} f^{\alpha \prime}_{ \theta} + 6 \, f^{\alpha \beta}_{ \theta} + 6 \, f^{\alpha \beta}_{ \theta} \, \partial_{\imath} f^{\alpha \prime}_{ \theta} + 6 \, f^{\alpha \beta}_{ \theta} + 6 \,$ $9\,r.\,\partial_{\beta}\mathcal{A}_{\beta}^{\theta}\partial_{\beta}\mathcal{A}_{\beta}^{\theta}\partial_{\beta}\mathcal{A}_{\alpha}^{\beta}-8\,t.\,3\,\mathcal{A}_{\beta}^{\theta}\partial_{\beta}^{\theta}\partial_{\alpha}^{f}+4\,t.\,3\,\partial_{\beta}f_{\theta}^{\theta}\partial_{\beta}^{f}_{\alpha}+9\,r.\,\partial_{\alpha}\mathcal{A}_{\beta}^{\theta}\partial_{\beta}\mathcal{A}_{\beta}^{\theta},-18\,r.\,\partial_{\beta}\mathcal{A}_{\beta}^{\theta}\partial_{\beta}\mathcal{A}_{\beta}^{\theta},-18\,r.\,\partial_{\beta}\mathcal{A}_{\beta}^{\theta}\partial_{\beta}\mathcal{A}_{\beta}^{\theta}$ $15 r. \frac{\partial_{\alpha} \mathcal{R}^{\alpha\beta_{l}}}{3} \frac{\partial_{\theta} \mathcal{R}^{\alpha\beta_{l}}}{\beta_{l}} + 30 r. \frac{\partial^{l} \mathcal{R}^{\alpha\beta_{l}}}{3} \frac{\partial^{l} \mathcal{R}^{\alpha\beta_{l}}}{\alpha_{l}} \frac{\partial_{\theta} \mathcal{R}^{\beta_{l}}}{\beta_{l}} + 4 t. \frac{\partial_{l} f^{\alpha_{l}}}{3} \frac{\partial_{\theta} f^{\alpha_{l}}}{\beta_{l}} - 8 t. \frac{\partial^{l} f^{\alpha_{l}}}{3} \frac{\partial^{l} f^{\alpha_{l}}}{\alpha_{l}} \frac{\partial_{\theta} f^{\beta_{l}}}{\beta_{l}} + 8 r. \frac{\partial_{\theta} \mathcal{R}^{\alpha\beta_{l}}}{\beta_{l}} - 8 t. \frac{\partial^{l} f^{\alpha_{l}}}{\beta_{l}} \frac{\partial^{l} f^{\alpha_{l}}}{$ $4r_{.2}\partial_{\beta}\mathcal{R}_{\alpha\theta_{i}}\partial^{\theta}\mathcal{R}^{\alpha\beta_{i}}+4r_{.2}\partial_{\beta}\mathcal{R}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{R}^{\alpha\beta_{i}}-24r_{.3}\partial_{\beta}\mathcal{R}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{i}\mathcal{R}_{\alpha\beta_{\theta}}\partial^{\theta}\mathcal{R}^{\alpha\beta_{i}}+2r_{.2}\partial_{\theta}\mathcal{R}_{\alpha\beta_{i}}\partial^{\theta}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}+2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}+2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}+2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}_{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}-2r_{.2}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial^{\alpha}\mathcal{R}^{\alpha$ $4r_{.2}\partial_{\theta}\mathcal{R}_{\alpha_{I}\beta}\partial^{\theta}\mathcal{R}^{\alpha\beta_{I}}+4t_{.2}\mathcal{R}_{,\theta\alpha}\partial^{\theta}f^{\alpha_{I}}+2t_{.2}\partial_{\alpha}f_{,\theta}\partial^{\theta}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f_{,\theta}\partial^{\theta}f^{\alpha_{I}}-t_{.2}\partial_{i}f_{\alpha_{\theta}}\partial^{\theta}f^{\alpha_{I}}+t_{.2}\partial_{\theta}f_{\alpha_{I}}\partial^{\theta}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f_{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}+t_{.2}\partial_{\alpha}f_{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f_{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}+t_{.2}\partial_{\alpha}f_{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f_{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f_{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f_{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f_{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f_{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f_{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}-t_{.2}\partial_{\alpha}f^{\alpha_{I}}\partial^{\alpha}f^$ $t. \, \partial_{\theta} f_{\iota \alpha} \partial^{\theta} f^{\alpha \iota} - 4 \, t. \, \, \mathcal{A}_{\alpha \theta \iota} \, \left(\, \mathcal{A}^{\alpha \iota \theta} + \partial^{\theta} f^{\alpha \iota} \right) + 2 \, t. \, \, \mathcal{A}_{\alpha \iota \theta} \, \left(\, \mathcal{A}^{\alpha \iota \theta} + 2 \, \partial^{\theta} f^{\alpha \iota} \right)))[t, \, x, \, y, \, z] \, dz \, dy \, dx \, dt$ **Wave operator** $0.^{+}f^{\parallel} + \begin{bmatrix} i & \sqrt{2} & kt \\ 3 & 3 \end{bmatrix} = 2k^{2}t = 0$ $^{0^{+}}f^{\perp}$ † ${}^{0}\mathcal{A}^{\parallel}$ †

 $\frac{1}{3} i \sqrt{2} kt_{2} - \frac{1}{3} i kt_{2} \frac{k^{2} t_{2}}{3} \qquad 0 \qquad 0 \qquad 0$ $0 \qquad 0 \qquad \frac{1}{6} \left(-9 k^{2} r_{3} + 4 t_{3}\right) - \frac{\sqrt{2} t_{3}}{3} \qquad 0 \qquad -\frac{2}{3} i kt_{3}$

								3	3	i	- 3			
				$\frac{1}{2}f^{\parallel} + \alpha$	0	0	0	0			0 0			
				$\frac{1}{2}f^{\perp}\uparrow^{\alpha}$	0	0	0	2 i k	$-\frac{1}{3}\bar{l}$	2 kt.	$0 \qquad \frac{2 k^2 t}{3}$	$^{2^{+}}\mathcal{A}^{\parallel}{}_{lphaeta}$	$2^+_{\cdot}f^{\parallel}_{\alpha\beta}$	$^{2}\mathcal{H}_{\alpha\beta\chi}^{\parallel}$
				•							$^{2^{+}}\mathcal{A}^{\parallel}$ † lphaeta		0	0
											$2^+ f^{\parallel} \dagger^{\alpha\beta}$	0	0	0
											$2^{-}\mathcal{A}^{\parallel} + ^{\alpha\beta\chi}$	0	0	0
Saturated propagator														
	0. ⁺ σ	0. ⁺ τ^{\parallel}	0.+ τ⊥	⁰⁻ σ [∥]	•									
^{0,+} σ [∥] †	$\frac{1}{(1+2k^2)^2t.}_{3}$	$-\frac{i \sqrt{2} k}{(1+2 k^2)^2 t}$	0	0										
0.+ τ∥ †	$\frac{i \sqrt{2} k}{(1+2 k^2)^2 t.}$	$\frac{2 k^2}{(1+2 k^2)^2 t.}$	0	0										
0. ⁺ τ [⊥] †	0	0	0	0										
^{0.} σ [∥] †	0	0	0	$\frac{1}{k^2 r. + t.}$	$^{1^{+}}\sigma^{\parallel}{}_{lphaeta}$	$^{1^+}\sigma^{\scriptscriptstyle \perp}{}_{lphaeta}$	1. ⁺ τ αβ	$\frac{1}{2}\sigma^{\parallel}_{\alpha}$	$\frac{1}{2}\sigma_{\alpha}^{\perp}$	$1^{-}\tau^{\parallel}_{\alpha}$	1. τ. α			
				$^{1^+}\sigma^\parallel$ † lphaeta	$\frac{6}{(3+k^2)^2t}$	$\frac{3\sqrt{2}}{(3+k^2)^2t.}_{2}$	$\frac{3i\sqrt{2}k}{(3+k^2)^2t.}$	0	0	0	0			
				1^+ σ^{\perp} $\uparrow^{\alpha\beta}$	$\frac{3\sqrt{2}}{(3+k^2)^2t_{.2}^2}$	$\frac{3}{(3+k^2)^2 t}$	$\frac{3ik}{\left(3+k^2\right)^2t.}$	0	0	0	0			
				$1.^+\tau^{\parallel} \uparrow^{\alpha\beta}$	$-\frac{3 i \sqrt{2} k}{(3+k^2)^2 t}$	$-\frac{3ik}{(3+k^2)^2t}.$	$\frac{3 k^2}{(3+k^2)^2 t}$	0	0	0	0			
				$^{1}\sigma^{\parallel}$ † $^{\alpha}$	0	0	0	$-\frac{2}{3k^2r}$	$-\frac{2\sqrt{2}}{3k^2r_1+6k^4r_1}$	0	$-\frac{4i}{3kr_{\cdot}+6k^3r_{\cdot}}$			

 $0 \qquad -\frac{2\sqrt{2}}{3k^2r_3+6k^4r_3} \quad \frac{9k^2r_3-4t_3}{3(k+2k^3)^2r_3t_3} \quad 0 \quad \frac{i\sqrt{2}(9k^2r_3-4t_3)}{3k(1+2k^2)^2r_3t_3}$

 $0 \qquad 0 \qquad \frac{4i}{3kr_{3}+6k^{3}r_{3}} - \frac{i\sqrt{2}(9k^{2}r_{3}-4t_{3})}{3k(1+2k^{2})^{2}r_{3}t_{3}} \quad 0 \quad \frac{2(9k^{2}r_{3}-4t_{3})}{3(1+2k^{2})^{2}r_{3}t_{3}} = \frac{2}{3} + \sigma^{\parallel}_{\alpha\beta} + \sigma^{\parallel}_{\alpha$

0

0

 $\dot{\Xi}\sigma^{\parallel} \uparrow^{\alpha\beta\chi}$

 $^{1}\mathcal{A}^{\perp}$ †

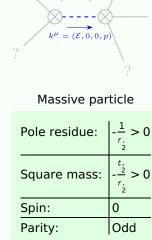
 $\frac{1}{\tau}$ τ^{\perp} τ^{α}

Source constraints

PSALTer results panel

Spin-parity form	Covariant form	Multiplicities
$0.^{+}\tau^{\perp} == 0$	$\partial_{\beta}\partial_{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\beta}==0$	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
$1^{-}\tau^{\parallel^{\alpha}}=0$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\beta\chi} = \partial_{\chi}\partial^{\chi}\partial_{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\beta\alpha}$	3
$\overline{i k 1^+_{\cdot} \sigma^{\parallel}^{\alpha \beta} + 1^+_{\cdot} \tau^{\parallel}^{\alpha \beta}} == 0$	$\partial_{\chi}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\beta\chi}+\partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\chi\alpha}+\partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\beta}+\partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\chi\alpha\delta}+\partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\alpha\beta\chi}==$	3
	$\partial_{\chi}\partial^{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\chi\beta} + \partial_{\chi}\partial^{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\chi} + \partial_{\chi}\partial^{\chi}\tau \left(\Delta + \mathcal{K}\right)^{\beta\alpha} + \partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\chi\beta\delta} + \partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\beta\alpha\chi}$	
$1^+_{\cdot} \sigma^{\parallel^{\alpha\beta}} = 1^+_{\cdot} \sigma^{\perp^{\alpha\beta}}$	$3\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\chi\beta\delta} + \partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\beta\alpha\chi} + 2\partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\chi\alpha\beta} = 3\partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\chi\alpha\delta} + \partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\alpha\beta\chi}$	3
$\frac{2 \sigma^{\parallel \alpha \beta \chi}}{2 \sigma^{\parallel \alpha \beta \chi}} = 0$	$3 \partial_{\epsilon} \partial_{\delta} \partial^{\chi} \partial^{\alpha} \sigma^{\delta \beta \epsilon} + 3 \partial_{\epsilon} \partial^{\epsilon} \partial^{\chi} \partial^{\alpha} \sigma^{\delta \beta}_{ $	5
	$2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\beta} \sigma^{\delta \alpha \chi} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\chi} \sigma^{\beta \alpha \delta} + 4 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\chi} \sigma^{\delta \alpha \beta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\delta} \sigma^{\alpha \beta \chi} +$	
	$3 \eta^{\beta\chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial^{\alpha} \sigma^{\delta}_{\delta}{}^{\epsilon} + 3 \eta^{\alpha\chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial_{\delta} \sigma^{\delta\beta\epsilon} + 3 \eta^{\beta\chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial^{\epsilon} \sigma^{\delta\alpha}_{\delta}{}^{\epsilon} =$	
	$3 \partial_{\epsilon} \partial_{\delta} \partial^{\chi} \partial^{\beta} \sigma^{\delta \alpha \epsilon} + 3 \partial_{\epsilon} \partial^{\epsilon} \partial^{\chi} \partial^{\beta} \sigma^{\delta \alpha}{}_{\delta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\alpha} \sigma^{\beta \chi \delta} + 4 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\alpha} \sigma^{\chi \beta \delta} +$	
	$2\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\alpha}\sigma^{\delta\beta\chi} + 2\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\chi}\sigma^{\alpha\beta\delta} + 2\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\beta\alpha\chi} + 4\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\chi\alpha\beta} +$	
	$3 \eta^{\alpha\chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial^{\beta} \sigma^{\delta}_{\delta} {}^{\epsilon} + 3 \eta^{\beta\chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial_{\delta} \sigma^{\delta\alpha\epsilon} + 3 \eta^{\alpha\chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial^{\epsilon} \sigma^{\delta\beta}_{\delta}$	
$2^+_{}\tau^{\parallel}{}^{\alpha\beta}=0$	$4 \partial_{\delta} \partial_{\chi} \partial^{\beta} \partial^{\alpha} \tau \left(\Delta + \mathcal{K} \right)^{\chi \delta} + 2 \partial_{\delta} \partial^{\delta} \partial^{\beta} \partial^{\alpha} \tau \left(\Delta + \mathcal{K} \right)^{\chi}_{\chi} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi} \tau \left(\Delta + \mathcal{K} \right)^{\alpha \beta} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi} \tau \left(\Delta + \mathcal{K} \right)^{\beta \alpha} +$	5
	$2 \eta^{\alpha\beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi} \tau (\Delta + \mathcal{K})^{\chi\delta} = 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\beta\chi} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\chi\beta} +$	
	$3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\beta} \tau (\Delta + \mathcal{K})^{\alpha \chi} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\beta} \tau (\Delta + \mathcal{K})^{\chi \alpha} + 2 \eta^{\alpha \beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\delta} \tau (\Delta + \mathcal{K})^{\chi}_{\chi}$	
Total expected gaug	24	

Massive spectrum



Odd **Massless spectrum**

(No particles)

Unitarity conditions

r. < 0 && t. > 0