<u>Wave</u> <u>operator</u> $0^+ f \| + i \sqrt{2} kt$, $2k^2 t$, ${\stackrel{0^+}{\cdot}} f^{\perp} \dagger$ $\frac{1^{+}\mathcal{H}^{\parallel}_{\alpha\beta}}{\cdot \mathcal{H}^{\perp}_{\alpha\beta}} \frac{1^{+}\mathcal{H}^{\perp}_{\alpha\beta}}{\cdot \mathcal{H}^{\perp}_{\alpha\beta}} \frac{1^{+}f^{\parallel}_{\alpha\beta}}{\cdot f^{\parallel}_{\alpha\beta}}$ °-78 † ${}^{1}\mathcal{A}^{\parallel}{}_{\alpha}$ $^{1^{+}}_{\bullet}\mathcal{A}^{\perp}$ $^{\alpha\beta}$ $\frac{1}{6}\left(t_{1}+4t_{3}\right)$ $^{1}\mathcal{A}^{\parallel}$ † $\frac{t \cdot +t}{\frac{1}{3}} \qquad \qquad 0 \qquad \frac{1}{3} \ i \ \sqrt{2} \ k \left(t \cdot +t \cdot 3\right)$ 1 \mathcal{A}^{\perp} \dagger^{α} $f^{\parallel} \uparrow^{\parallel} \uparrow^{\alpha}$ $f^{\perp}f^{\perp}$

 $\mathcal{S} == \iiint \left(\frac{1}{6} \left(2 \left(t_{1} - 2 \, t_{3} \right) \, \mathcal{A}^{\alpha \, \prime}_{ \, \alpha} \, \, \mathcal{A}^{ \, \theta}_{ \, \theta} + 6 \, \, \mathcal{A}^{\alpha \beta \chi} \, \, \sigma_{\alpha \beta \chi} + 6 \, \, f^{\alpha \beta}_{ \, \alpha} \, \, \tau_{\left(\Delta + \mathcal{K}\right)_{\alpha \beta}} - 4 \, t_{1}^{ \, \alpha} \, \, \mathcal{A}^{ \, \theta}_{ \, \theta} \, \, \partial_{i} f^{\alpha \, \prime}_{ \, \alpha} + 8 \, t_{3}^{ \, \alpha} \, \, \mathcal{A}^{ \, \theta}_{ \, \theta} \, \, \partial_{i} f^{\alpha \, \beta}_{ \, \alpha} + 6 \, r_{1}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{1}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{2}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha} \, \partial_{i} \mathcal{A}^{\alpha \beta}_{ \, \alpha} + 6 \, r_{3}^{ \, \alpha}_{ \, \alpha} + 6$

 $6\,r_{.\,\,1}\,\partial_{\alpha}\mathcal{R}^{\alpha\beta\,\prime}\,\partial_{\theta}\mathcal{R}_{\,\,\prime}^{\,\,\theta} + 12\,r_{.\,\,1}\,\partial^{\prime}\mathcal{R}^{\alpha\beta}_{\,\,\alpha}\,\partial_{\theta}\mathcal{R}_{\,\,\prime}^{\,\,\theta} - 2\,t_{.\,\,1}\,\partial_{\imath}f^{\alpha\,\prime}\,\partial_{\theta}f_{\,\,\alpha}^{\,\,\theta} + 4\,t_{.\,\,3}\,\partial_{\imath}f^{\alpha\,\prime}\,\partial_{\theta}f_{\,\,\alpha}^{\,\,\theta} + 4\,t_{.\,\,3}\,\partial^{\prime}f^{\alpha}_{\,\,\alpha}\,\partial_{\theta}f_{\,\,\prime}^{\,\,\theta} - 8\,t_{.\,\,3}\,\partial^{\prime}f^{\alpha}_{\,\,\alpha}\,\partial_{\theta}f_{\,\,\prime}^{\,\,\theta} - 8\,r_{.\,\,3}\,\partial_{\beta}\mathcal{R}_{\,\,\alpha\,\prime}^{\,\,\theta}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,\prime} + 4\,t_{.\,\,3}\,\partial_{\imath}f^{\alpha\,\prime}_{\,\,\alpha}\,\partial_{\theta}f_{\,\,\alpha}^{\,\,\theta} + 4\,t_{.\,\,3}\,\partial_{\imath}f^{\alpha}_{\,\,\alpha}\,\partial_{\theta}f_{\,\,\alpha}^{\,\,\theta} - 8\,t_{.\,\,3}\,\partial^{\prime}f^{\alpha}_{\,\,\alpha}\,\partial_{\theta}f_{\,\,\alpha}^{\,\,\theta} - 8\,r_{.\,\,3}\,\partial_{\beta}\mathcal{R}_{\,\,\alpha\,\beta}^{\,\,\theta} + 4\,t_{.\,\,3}\,\partial_{\imath}f^{\alpha\,\prime}_{\,\,\alpha}\,\partial_{\theta}f_{\,\,\alpha}^{\,\,\theta} - 8\,r_{.\,\,\alpha}\,\partial_{\theta}f_{\,\,\alpha}^{\,\,\theta} - 8\,r_{.\,\,\alpha}\,\partial_{\theta}$

 $4r_{1}\partial_{\beta}\mathcal{R}_{\alpha\theta_{1}}\partial^{\theta}\mathcal{R}^{\alpha\beta_{1}}-16r_{1}\partial_{\beta}\mathcal{R}_{\beta\alpha_{1}\partial\alpha_{1}}\partial^{\theta}\mathcal{R}^{\alpha\beta_{1}}-4r_{1}\partial_{\beta}\mathcal{R}_{\alpha\beta_{0}}\partial^{\theta}\mathcal{R}^{\alpha\beta_{1}}+4r_{1}\partial_{\theta}\mathcal{R}_{\alpha\beta_{1}}\partial^{\theta}\mathcal{R}^{\alpha\beta_{1}}+4r_{1}\partial_{\theta}\mathcal{R}_{\alpha\beta_{1}}\partial^{\theta}\mathcal{R}^{\alpha\beta_{1}}-6t_{1}\partial_{\alpha}f_{\beta\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f_{\beta\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f_{\beta\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f_{\beta\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f_{\beta\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f_{\beta\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f_{\beta\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f_{\beta\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f_{\beta\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f_{\beta\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f_{\beta\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f^{\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f^{\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f^{\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f^{\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f^{\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f^{\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f^{\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f^{\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f^{\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f^{\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f^{\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f^{\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}\partial^{\theta}f^{\alpha_{1}}-6t_{1}\partial_{\alpha}f^{\alpha_{1}}\partial^{\theta}f$

 $3\,t_{1}\,\partial_{\alpha}f_{\,\theta\,i}\,\partial^{\theta}f^{\,\alpha\,i}\,+\,3\,t_{1}\,\partial_{i}f_{\,\alpha\theta}\,\partial^{\theta}f^{\,\alpha\,i}\,+\,3\,t_{1}\,\partial_{\theta}f_{\,\alpha\,i}\,\partial^{\theta}f^{\,\alpha\,i}\,+\,3\,t_{1}\,\partial_{\theta}f_{\,\alpha\,i}\,\partial^{\theta}f^{\,\alpha\,i}\,+\,6\,t_{1}\,\mathcal{A}_{\,\alpha\theta\,i}\,\left(\,\mathcal{A}^{\,\alpha\,i\,\theta}\,+\,2\,\partial^{\theta}f^{\,\alpha\,i}\,\right)\right)\!\!\!\left[t_{1}\,,\,x_{1}\,y_{2}\,d\,z\,d\,y\,d\,x\,d\,t_{1}\,\partial_{\theta}f_{\,\alpha\,i}\,\partial^{\theta}f^{\,\alpha\,i}\,+\,3\,t_{2}\,\partial_{\theta}f^{\,\alpha\,i}\,\partial^{\theta}f^{\,\alpha\,i}\,+\,3\,t_{3}\,\partial_{\theta}f^{\,\alpha\,i}\,\partial^{\theta}f^{\,\alpha\,i}\,+\,3\,t_{3}\,\partial_{\theta}f^{\,\alpha\,i}\,\partial^{\theta}f^{\,\alpha\,i}\,+\,3\,t_{3}\,\partial_{\theta}f^{\,\alpha\,i}\,\partial^{\theta}f^{\,\alpha\,i}\,+\,3\,t_{3}\,\partial_{\theta}f^{\,\alpha\,i}\,\partial^{\theta}f^{\,\alpha\,i}\,+\,3\,t_{3}\,\partial_{\theta}f^{\,\alpha\,i}\,\partial^{\theta}f^{\,\alpha\,i}\,\partial^{\theta}f^{\,\alpha\,i}\,+\,3\,t_{3}\,\partial_{\theta}f^{\,\alpha\,i}\,\partial^{\theta}f^{\,\alpha\,i}\,+\,3\,t_{3}\,\partial_{\theta}f^{\,\alpha\,i}\,\partial^{\theta}f^{\,\alpha\,i}\,\partial^{\theta}f^{\,\alpha\,i}\,\partial^{\theta}f^{\,\alpha\,i}\,+\,3\,t_{3}\,\partial_{\theta}f^{\,\alpha\,i}\,\partial^{\theta$

 $4\underbrace{t.}_{1}\underbrace{\mathcal{A}_{i}}_{\theta}\underbrace{\partial^{i}f^{\alpha}}_{\alpha}-8\underbrace{t.}_{3}\underbrace{\mathcal{A}_{i}}_{\theta}\underbrace{\partial^{i}f^{\alpha}}_{\alpha}-2\underbrace{t.}_{1}\underbrace{\partial_{i}f^{\theta}}_{\theta}\underbrace{\partial^{i}f^{\alpha}}_{\alpha}+4\underbrace{t.}_{3}\underbrace{\partial_{i}f^{\theta}}_{\theta}\underbrace{\partial^{i}f^{\alpha}}_{\alpha}+6\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\theta}\underbrace{\partial_{\theta}\mathcal{A}_{\beta}}_{\theta}-12\underbrace{r.}_{1}\underbrace{\partial^{i}\mathcal{A}^{\alpha\beta}}_{\alpha}\underbrace{\partial_{\theta}\mathcal{A}_{\beta}}_{\theta}-12\underbrace{r.}_{1}\underbrace{\partial^{i}\mathcal{A}^{\alpha\beta}}_{\alpha}\underbrace{\partial_{\theta}\mathcal{A}_{\beta}}_{\theta}-12\underbrace{r.}_{1}\underbrace{\partial^{i}\mathcal{A}^{\alpha\beta}}_{\alpha}\underbrace{\partial_{\theta}\mathcal{A}_{\beta}}_{\theta}-12\underbrace{r.}_{1}\underbrace{\partial^{i}\mathcal{A}^{\alpha\beta}}_{\alpha}\underbrace{\partial_{\theta}\mathcal{A}_{\beta}}_{\theta}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{A}^{\alpha\beta}}_{\alpha}-12\underbrace{r.}_{1}\underbrace{\partial_{\alpha}\mathcal{$

$\frac{1}{\cdot}^{\cdot}\sigma^{\perp} + \alpha^{\beta}$

 $^{0^+}\tau^{\perp}$ † ${}^{0^{-}}\sigma^{\parallel}$ †

Saturated propagator

PSALTer results panel

	1- τ [⊥] † α	0	0	0	$\frac{2 i k t_{1} - 4 i k t_{3}}{3 t_{1} t_{3} + 6 k^{2} t_{1} t_{3}}$	$-\frac{i \sqrt{2} k (t_1 + 4 t_3)}{3 (1 + 2 k^2)^2 t_1 t_3}$	Θ	$\frac{2 k^{2} \left(t_{1} + 4 t_{3}\right)}{3 \left(1 + 2 k^{2}\right)^{2} t_{1} t_{3}}$	$^{2^{+}}\sigma^{\parallel}_{\alpha\beta}$	$2^+_{\bullet} \tau^{\parallel}_{\alpha\beta}$	$2^{-}_{\bullet}\sigma^{\parallel}_{\alpha\beta\chi}$
	_							$^{2^{+}}\sigma^{\parallel}$ † lphaeta	$\frac{2}{\left(1+2k^2\right)^2t_{\underline{1}}}$	$-\frac{2 i \sqrt{2} k}{(1+2 k^2)^2 t}$	
								$2^{+}_{\bullet} \tau^{\parallel} \uparrow^{\alpha\beta}$	$\frac{2 i \sqrt{2} k}{\left(1+2 k^2\right)^2 t}$	$\frac{4 k^2}{\left(1+2 k^2\right)^2 t_{1}}$	0
								$^{2^{-}}\sigma^{\parallel}$ † $^{\alpha\beta\chi}$	0	0	$\frac{2}{2 k^2 r_i + t_i}$
Source constraints											
Spin-parity form	Covariant form								Mult	tiplicities	
${\stackrel{\Theta^+}{\cdot}} {\tau}^{\perp} == \Theta$	$\partial_{\beta}\partial_{\alpha\tau}\left(\Delta+\mathcal{K}\right)^{\alpha\beta}=0$										
$-2 i k \cdot 0^+ \sigma^{\parallel} + 0^+ \tau^{\parallel} == 0$	$\partial_{\beta}\partial_{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\beta} = \partial_{\beta}\partial^{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\alpha}_{\alpha} + 2 \partial_{\chi}\partial^{\chi}\partial_{\beta}\sigma^{\alpha}_{\alpha}^{\beta}$										
$2 i k \frac{1}{\cdot} \sigma^{\perp}^{\alpha} + \frac{1}{\cdot} \tau^{\perp}^{\alpha} == 0$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}_{\tau}\left(\Delta+\mathcal{K}\right)^{\beta\chi} = \partial_{\chi}\partial^{\chi}\partial_{\beta\tau}\left(\Delta+\mathcal{K}\right)^{\alpha\beta} + 2\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial_{\beta}\sigma^{\beta\alpha\chi}$										
1 ⁻ _τ ^α == Θ	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\beta\chi} = \partial_{\chi}\partial^{\chi}\partial_{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\beta\alpha}$										
$i k \frac{1}{\cdot} \sigma^{\perp} \alpha^{\beta} + \frac{1}{\cdot} \tau^{\parallel} \alpha^{\beta} = 0$	$\partial_{\chi}\partial^{\alpha}\tau \left(\Delta+\mathcal{K}\right)^{\beta\chi}+\delta$	$\partial_{\chi}\partial^{\beta}\tau$ (Δ +	\mathcal{K}) $^{\chi\alpha} + \partial_{\chi}\partial^{\chi}_{\tau}$ (Δ	$(+\mathcal{K})^{\alpha\beta} + 2 \partial_{\delta}\hat{a}$	$\chi \partial^{\alpha} \sigma^{\chi \beta \delta} + 2 \partial_{\delta} \partial^{\delta} $	$\partial_{\chi}\sigma^{\chi\alpha\beta}$ ==				3	

 $3\ \partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\beta}\tau\ (\Delta+\mathcal{K})^{\alpha\chi} - 3\ \partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\beta}\tau\ (\Delta+\mathcal{K})^{\chi\alpha} + 3\ \partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}\tau\ (\Delta+\mathcal{K})^{\alpha\beta} + 3\ \partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}\tau\ (\Delta+\mathcal{K})^{\beta\alpha} + 3\ \partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}\tau\ (\Delta+\mathcal{K})^{\beta\alpha} + 3\ \partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}\tau\ (\Delta+\mathcal{K})^{\beta\alpha} + 3\ \partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}\tau\ (\Delta+\mathcal{K})^{\alpha\beta} + 3\ \partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}\tau\ (\Delta+\mathcal{K})^{\beta\alpha} + 3\ \partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}\tau\ (\Delta+\mathcal{K})^{\alpha\beta} + 3\ \partial_{\delta}\partial^{\lambda}\partial_{\chi}\partial^{\chi}\tau\ (\Delta+\mathcal{K})^{\alpha\beta} + 3\ \partial_{\delta}\partial^{\lambda}\partial_{\chi}\partial^{\lambda}\tau\ (\Delta+\mathcal{K})^{\alpha\beta} + 3\ \partial_{\delta}\partial^{\lambda}\partial_{\chi}\partial^{\chi}\tau\ (\Delta+\mathcal{K})^{\alpha\beta} + 3\ \partial_{\delta}\partial^{\lambda}\partial_{\chi}\partial^{\lambda}\tau\ (\Delta$

 $4 \ \emph{i} \ \emph{k}^{X} \ \partial_{\epsilon}\partial_{\chi}\partial^{\beta}\partial^{\alpha}\sigma^{\delta}_{\ \ \delta}{}^{\epsilon} - 6 \ \emph{i} \ \emph{k}^{X} \ \partial_{\epsilon}\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\delta\beta\epsilon} - 6 \ \emph{i} \ \emph{k}^{X} \ \partial_{\epsilon}\partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\delta\alpha\epsilon} + 6 \ \emph{i} \ \emph{k}^{X} \ \partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial_{\chi}\sigma^{\alpha\beta\delta} + 6 \ \emph{i} \ \emph{k}^{X} \ \partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial_{\chi}\sigma^{\alpha\beta\delta} + 6 \ \emph{i} \ \emph{k}^{X} \ \partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial_{\chi}\sigma^{\alpha\beta\delta} + 6 \ \emph{k}^{X} \ \partial_{\epsilon}\partial^{\epsilon}\partial_{\lambda}\partial^{\epsilon}\partial_{\lambda}\sigma^{\alpha\beta\delta} + 6 \ \emph{k}^{X} \ \partial_{\epsilon}\partial^{\epsilon}\partial_{\lambda}\partial^{\epsilon}\partial_{\lambda}\partial^{\epsilon}\partial_{\lambda}\sigma^{\alpha\beta\delta} + 6 \ \emph{k}^{X} \ \partial_{\epsilon}\partial^{\epsilon}\partial_{\lambda}\partial^{\epsilon}\partial_{\lambda}\partial^{\epsilon}\partial_{\lambda}\sigma^{\alpha\beta\delta} + 6 \ \emph{k}^{X} \ \partial_{\epsilon}\partial^{\epsilon}\partial_{\lambda}$

 $6 \; i \; k^{\chi} \; \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi} \sigma^{\beta \alpha \delta} + 2 \; \eta^{\alpha \beta} \; \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi} \tau \; (\Delta + \mathcal{K})^{\chi \delta} - 2 \; \eta^{\alpha \beta} \; \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\delta} \tau \; (\Delta + \mathcal{K})^{\chi} _{\chi} - 4 \; i \; \eta^{\alpha \beta} \; k^{\chi} \; \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial_{\chi} \sigma^{\delta} _{\delta} \overset{\epsilon}{\circ}) == 0$

3 t. t.

 $^{1^{+}}_{\bullet}\tau^{\parallel}_{\alpha\beta}$

 $t_1 + k^2 t_1$

 $^{1^{-}}\sigma^{\parallel}$ †

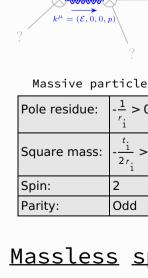
 $^{1^{-}}\sigma^{\perp}$ $^{\alpha}$

 $\mathbf{1}^{\text{-}}\boldsymbol{\tau}^{\parallel}+\boldsymbol{\alpha}$

0

Total expected gauge generators:

Massive spectrum



<u>Massless</u> <u>spectrum</u>

(There are no massless particles)

<u>Gauge symmetries</u>

(Not yet implemented in PSALTer)

<u>Unitarity</u> <u>conditions</u>

 $r_{1} < 0 \&\& t_{1} > 0$

<u>Validity</u> <u>assumptions</u>

(Not yet implemented in PSALTer)