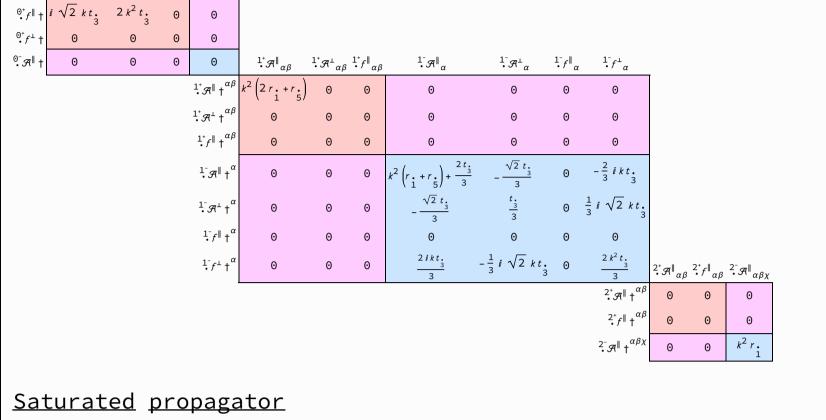
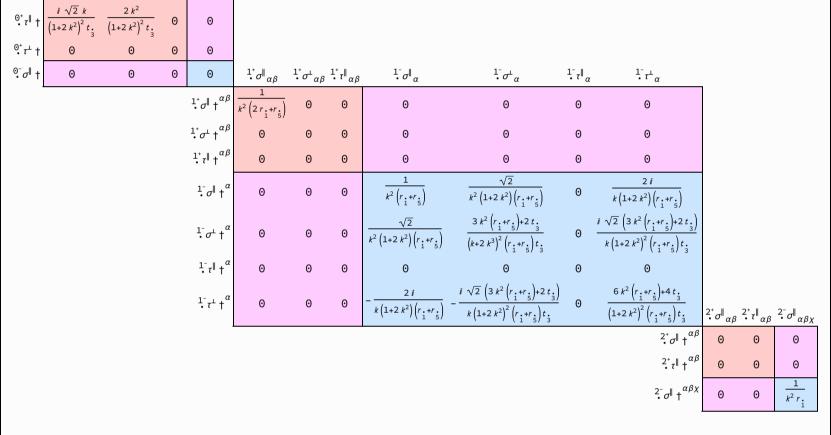
$\iiint \iint \left(\frac{1}{3} \left(-2 t \cdot \mathcal{A}^{\alpha i}_{\beta \alpha} \mathcal{A}^{\alpha i}_{\beta \alpha} \mathcal{A}^{\beta i}_{\beta \alpha} \mathcal{A}^{\alpha \beta \chi} \right) \mathcal{A}^{\alpha \beta \chi}_{\alpha \beta \chi} + 3 \mathcal{A}^{\alpha \beta}_{\alpha \beta \chi} + 4 t \cdot \mathcal{A}^{\alpha \beta}_{\beta \alpha} \mathcal{A}^{\beta i}_{\alpha \beta} \mathcal{A}^{\beta i}_{\beta \alpha} \mathcal{A}^{\alpha i}_{\beta \alpha$ $\partial_{\theta}f_{i}^{\ \theta}-4\mathop{r.}\limits_{1}^{\ \partial_{\beta}\mathcal{R}_{\alpha i \, \theta}}\partial^{\theta}\mathcal{R}^{\alpha \beta i}+2\mathop{r.}\limits_{1}^{\ \partial_{\beta}\mathcal{R}_{\alpha \theta i}}\partial^{\theta}\mathcal{R}^{\alpha \beta i}-8\mathop{r.}\limits_{1}^{\ \partial_{\beta}\mathcal{R}_{i \, \theta \alpha}}\partial^{\theta}\mathcal{R}^{\alpha \beta i}-2\mathop{r.}\limits_{1}^{\ \partial_{i}\mathcal{R}_{\alpha \beta \theta}}\partial^{\theta}\mathcal{R}^{\alpha \beta i}+2\mathop{r.}\limits_{1}^{\ \partial_{\alpha}\mathcal{R}_{\alpha \beta i}}\partial^{\alpha}\mathcal{R}^{\alpha \beta i}+2\mathop{r.}\limits_{1}^{\ \partial_{\alpha}\mathcal{R}^{\alpha \beta i}}\partial^{\alpha}\mathcal{R}^{\alpha \beta i}+2\mathop{r.}\limits_{1}^{\ \partial_{\alpha}\mathcal{R}_{\alpha \beta i}}\partial$ $2r_{1}\partial_{\theta}\mathcal{A}_{\alpha\beta_{1}}\partial^{\theta}\mathcal{A}^{\alpha\beta_{1}} + 2r_{1}\partial_{\theta}\mathcal{A}_{\alpha_{1}\beta_{1}}\partial^{\theta}\mathcal{A}^{\alpha\beta_{1}} + 3r_{5}\partial_{\alpha}\mathcal{A}^{\kappa}_{\theta_{1}}\partial^{\theta}\mathcal{A}^{\alpha_{1}}_{\alpha_{1}} - 3r_{5}\partial_{\theta}\mathcal{A}^{\kappa}_{\alpha_{1}}\partial^{\theta}\mathcal{A}^{\alpha_{1}}_{\alpha_{1}} - 3r_{5}\partial_{\alpha}\mathcal{A}^{\alpha_{1}\theta_{1}}\partial_{\kappa}\mathcal{A}^{\kappa}_{\alpha_{1}\theta_{1}}\partial^{\kappa}\mathcal{A}^{\kappa}_{\alpha_{1}\theta_{1}}\partial^{\theta}\mathcal{A}^{\alpha_{1}\theta_{1}}_{\alpha_{1}}\partial^{\theta}\mathcal{A}^{\alpha_{1}\theta_{1$ $6r_{5}\partial^{\theta}\mathcal{A}^{\alpha_{1}}{}_{\alpha}\partial_{\kappa}\mathcal{A}_{1}^{\kappa}{}_{\theta}+3r_{5}\partial_{\alpha}\mathcal{A}^{\alpha_{1}\theta}\partial_{\kappa}\mathcal{A}_{\theta}^{\kappa}{}_{1}-6r_{5}\partial^{\theta}\mathcal{A}^{\alpha_{1}}{}_{\alpha}\partial_{\kappa}\mathcal{A}_{\theta}^{\kappa}{}_{1}))[t,\,x,\,y,\,z]\,dz\,dy\,dx\,dt$ <u>Wave</u> <u>operator</u>

S ==

PSALTer results panel





Spin-parity form Covariant fo

Source constraints

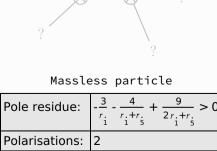
Spin-parity form	Covariant form	Multiplicities
${\stackrel{\scriptscriptstyle{0^{-}}}{\cdot}}\sigma^{\parallel}=0$	$\epsilon \eta_{\alpha\beta\chi\delta} \ \partial^{\delta}\sigma^{\alpha\beta\chi} = 0$	1
${\stackrel{\Theta^+}{\scriptstyle{\bullet}}} \tau^{\perp} == \Theta$	$\partial_{\beta}\partial_{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\beta} == 0$	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
$\left\ \frac{1}{\tau} \right\ ^{\alpha \beta} = 0$	$\partial_{\chi}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\beta\chi} + \partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\chi\alpha} + \partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\beta} = \partial_{\chi}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\chi\beta} + \partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\chi} + \partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\beta\alpha}$	3
$\int_{\bullet}^{1^{+}} \sigma^{\perp}^{\alpha\beta} = 0$	$\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\chi\beta\delta} + \partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\chi\alpha\beta} == \partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\chi\alpha\delta}$	3
$2^+_{\bullet \tau} \parallel^{\alpha \beta} = 0$	$4 \partial_{\delta} \partial_{\chi} \partial^{\beta} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\chi \delta} + 2 \partial_{\delta} \partial^{\delta} \partial^{\beta} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\chi}_{\chi} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi} \tau (\Delta + \mathcal{K})^{\alpha \beta} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi} \tau (\Delta + \mathcal{K})^{\beta \alpha} + 2 \eta^{\alpha \beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi} \tau (\Delta + \mathcal{K})^{\chi \delta} = 0$	5
	$ 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} $	
$2^{+}_{\bullet}\sigma^{\parallel}^{\alpha\beta} = 0$	$3 \partial_{\delta} \partial_{\chi} \partial^{\alpha} \sigma^{\chi \beta \delta} + 3 \partial_{\delta} \partial_{\chi} \partial^{\beta} \sigma^{\chi \alpha \delta} + 2 \eta^{\alpha \beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \sigma^{\chi}_{\chi}^{\delta} = 2 \partial_{\delta} \partial^{\beta} \partial^{\alpha} \sigma^{\chi}_{\chi}^{\delta} + 3 \left(\partial_{\delta} \partial^{\delta} \partial_{\chi} \sigma^{\alpha \beta \chi} + \partial_{\delta} \partial^{\delta} \partial_{\chi} \sigma^{\beta \alpha \chi} \right)$	5
Total expected gauge generators:		25

Multiplicities

(There are no massive particles)

Massive spectrum

Massless spectrum



<u>Gauge symmetries</u>

(Not yet implemented in PSALTer)

$\left(r. < 0 \&\& \left(r. < -r. || r. > -2 r.\right)\right) || \left(r. > 0 \&\& -2 r. < r. < -r.\right)$

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

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

(Not yet implemented in PSALTer)