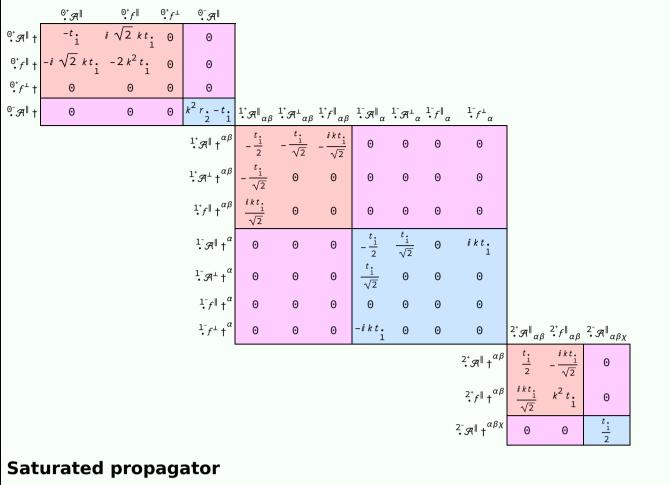
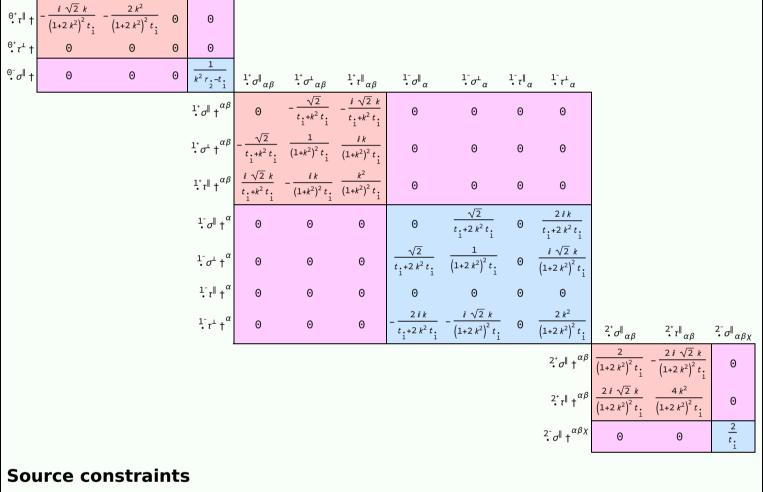
$\mathcal{S} = \iiint \left(\mathcal{A}^{\alpha\beta\chi} \ \sigma_{\alpha\beta\chi} + f^{\alpha\beta} \ \tau \left(\Delta + \mathcal{K} \right)_{\alpha\beta} + \frac{1}{3} \ r_{ \mathbf{2}} \left(4 \ \partial_{\beta} \mathcal{R}_{\alpha \, i \, \theta} - 2 \ \partial_{\beta} \mathcal{R}_{\alpha \, \theta \, i} + 2 \ \partial_{\beta} \mathcal{R}_{i \, \theta \, \alpha} - \partial_{i} \mathcal{R}_{\alpha \, \beta \, \theta} + \partial_{\theta} \mathcal{R}_{\alpha \, \beta \, i} - 2 \ \partial_{\theta} \mathcal{R}_{\alpha \, i \, \theta} \right) \partial^{\theta} \mathcal{R}^{\alpha\beta \, i} + 2 \left(\partial_{\beta} \mathcal{R}_{\alpha \, \theta \, i} + \partial_{\alpha} \mathcal{R}_{\alpha \, \beta \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, \beta \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha\beta \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} + \partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha\beta \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} + \partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha\beta \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} + \partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha\beta \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} + \partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha\beta \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha\beta \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha\beta \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha\beta \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha\beta \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha\beta \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha\beta \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha\beta \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha\beta \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha\beta \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha\beta \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha\beta \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha\beta \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha\beta \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \, i} \right) \partial^{\theta} \mathcal{R}^{\alpha \, i} + 2 \left(\partial_{\alpha} \mathcal{R}_{\alpha \, i} - \partial_{\alpha} \mathcal{R}_{\alpha \,$ $\frac{1}{2} t \underbrace{1}_{1} \left(2 \, \, \mathcal{R}^{\alpha_{1}}_{\phantom{\alpha_{1}} \alpha} \, \, \mathcal{R}^{\phantom{\alpha_{1}} \theta}_{\phantom{\alpha_{1}} \theta} - 4 \, \, \mathcal{R}^{\phantom{\alpha_{1}} \theta}_{\phantom{\alpha_{1}} \theta} \, \, \partial_{i} f^{\alpha_{1}}_{\phantom{\alpha_{1}} \theta} + 4 \, \, \mathcal{R}^{\phantom{\alpha_{1}} \theta}_{\phantom{\alpha_{1}} \theta} \, \, \partial^{i} f^{\alpha}_{\phantom{\alpha_{1}} \alpha} - 2 \, \partial_{i} f^{\theta}_{\phantom{\alpha_{1}} \theta} \, \partial^{i} f^{\alpha}_{\phantom{\alpha_{1}} \alpha} - 2 \, \partial_{i} f^{\alpha_{1}}_{\phantom{\alpha_{1}} \theta} + 4 \, \partial^{i} f^{\alpha}_{\phantom{\alpha_{1}} \alpha} \, \partial_{\theta} f^{\phantom{\alpha_{1}} \theta}_{\phantom{\alpha_{1}} \theta} - 2 \, \partial_{\alpha} f_{\phantom{\alpha_{1}} \theta} \, \partial^{\theta} f^{\alpha_{1}}_{\phantom{\alpha_{1}} \theta} - 2 \, \partial_{\alpha} f^{\alpha_{1}}_{\phantom{\alpha_{1}} \theta} + 4 \, \partial^{i} f^{\alpha_{1}}_$ $\partial_{\alpha}f_{\theta_{i}}\partial^{\theta}f^{\alpha_{i}} + \partial_{i}f_{\alpha\theta}\partial^{\theta}f^{\alpha_{i}} + \partial_{\theta}f_{\alpha_{i}}\partial^{\theta}f^{\alpha_{i}} + \partial_{\theta}f_{\alpha}\partial^{\theta}f^{\alpha_{i}} + 2 \,\,\mathcal{A}_{\alpha\theta_{i}} \left(\mathcal{A}^{\alpha_{i}\theta} + 2 \,\partial^{\theta}f^{\alpha_{i}}\right)\right)\left[t\,,\,x\,,\,y\,,\,z\right] \,dz\,dy\,dx\,dt$

Wave operator

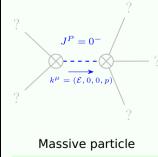
PSALTer results panel





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

Massive spectrum



Pole residue: $\left| -\frac{1}{\frac{r}{2}} > 0 \right|$

	2			
Square mass:	$\frac{\frac{t}{1}}{\frac{r}{2}} > 0$			
Spin:	0			
Parity:	Odd			
Massless spectrum				

(No particles)

Unitarity conditions

r. < 0 && t. < 0