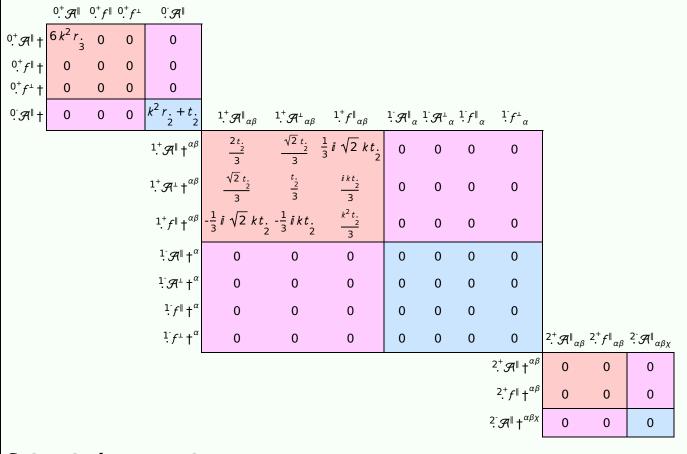
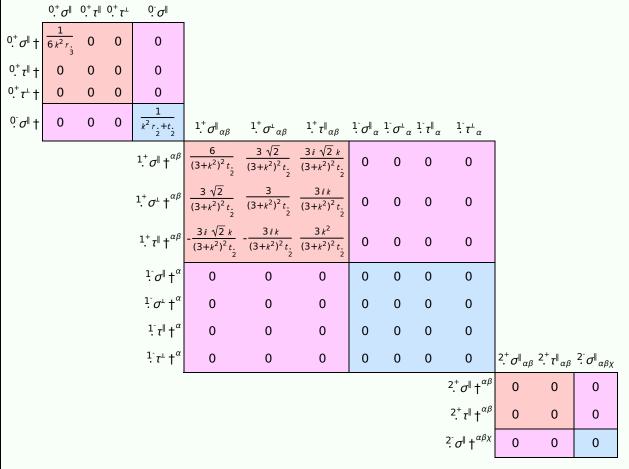
PSALTer results panel

 $\mathcal{S} = \iiint (\frac{1}{6} \left(6 \,\, \mathcal{A}^{\alpha\beta\chi} \,\, \sigma_{\alpha\beta\chi} + 6 \,\, f^{\alpha\beta} \,\, \tau \left(\Delta + \mathcal{K} \right)_{\alpha\beta} - 24 \, r_{.3} \, \partial_{\beta} \mathcal{R}_{,\,\,\theta}^{\,\,\theta} \, \partial^{i} \mathcal{R}_{\,\,\alpha}^{\alpha\beta} - 24 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha}^{\alpha\beta} \, \partial_{\theta} \mathcal{R}_{,\,\,\beta}^{\,\,\theta} + 48 \, r_{.3} \, \partial^{i} \mathcal{R}_{\,\,\alpha}^{\,\,\theta} \, \partial_{\theta} \mathcal{R}_{,\,\,\beta}^{\,\,\theta} + 8 \, r_{.2} \, \partial_{\beta} \mathcal{R}_{\,\alpha i \theta} \, \partial^{\theta} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} - 4 \, r_{.2} \, \partial_{\beta} \mathcal{R}_{\,\alpha \theta i} \, \partial^{\theta} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} + 48 \, r_{.3} \, \partial_{\alpha} \mathcal{R}_{\,\,\alpha i \theta}^{\,\,\alpha \beta} +$ $4r_{2}\partial_{\beta}\mathcal{R}_{,\theta\alpha}\partial^{\theta}\mathcal{R}^{\alpha\beta\imath} - 24r_{3}\partial_{\beta}\mathcal{R}_{,\theta\alpha}\partial^{\theta}\mathcal{R}^{\alpha\beta\imath} - 2r_{2}\partial_{\beta}\mathcal{R}_{\alpha\beta\theta}\partial^{\theta}\mathcal{R}^{\alpha\beta\imath} + 2r_{2}\partial_{\theta}\mathcal{R}_{\alpha\beta\imath}\partial^{\theta}\mathcal{R}^{\alpha\beta\imath} - 4r_{2}\partial_{\theta}\mathcal{R}_{\alpha\imath\beta}\partial^{\theta}\mathcal{R}^{\alpha\beta\imath} + 4t_{2}\mathcal{R}_{,\theta\alpha}\partial^{\theta}f^{\alpha\imath} + 2t_{2}\partial_{\alpha}f_{,\theta}\partial^{\theta}f^{\alpha\imath} - 4r_{2}\partial_{\theta}\mathcal{R}_{\alpha\beta\imath}\partial^{\theta}\mathcal{R}^{\alpha\beta\imath} + 4r_{2}\partial_{\alpha}f_{\alpha\beta}\partial^{\theta}\mathcal{R}^{\alpha\beta\imath} + 4r_{2}\partial_{\alpha}f_{\alpha\beta}\partial^{\theta}\mathcal{R}^{\alpha\beta\imath} + 4r_{2}\partial_{\alpha}f_{\alpha\beta}\partial^{\theta}\mathcal{R}^{\alpha\beta\imath} - 4r_{2}\partial_{\alpha}f_{\alpha\beta}\partial^{\theta}\mathcal{R}^{\alpha\beta\imath} + 4r_{2}\partial_{\alpha}f_{\alpha\beta}\partial^{\theta}\mathcal{R}^{\alpha\beta\imath}$ $t_{2} \, \partial_{\alpha} f_{\theta_{i}} \, \partial^{\theta} f^{\alpha i} - t_{2} \, \partial_{i} f_{\alpha \theta} \, \partial^{\theta} f^{\alpha i} + t_{2} \, \partial_{\theta} f_{\alpha_{i}} \, \partial^{\theta} f^{\alpha i} - t_{2} \, \partial_{\theta} f_{i\alpha} \, \partial^{\theta} f^{\alpha i} - t_{2} \, \partial_{\theta} f_{i\alpha} \, \partial^{\theta} f^{\alpha i} - t_{2} \, \partial_{\theta} f_{i\alpha} \, \partial^{\theta} f^{\alpha i} - t_{2} \, \partial_{\theta} f_{i\alpha} \, \partial^{\theta} f^{\alpha i} - t_{2} \, \partial_{\theta} f_{i\alpha} \, \partial^{\theta} f^{\alpha i} - t_{2} \, \partial_{\theta} f_{i\alpha} \, \partial^{\theta} f^{\alpha i} - t_{2} \, \partial_{\theta} f_{i\alpha} \, \partial^{\theta} f^{\alpha i} - t_{2} \, \partial_{\theta} f_{i\alpha} \, \partial^{\theta} f^{\alpha i} - t_{2} \, \partial_{\theta} f_{i\alpha} \, \partial^{\theta} f^{\alpha i} - t_{2} \, \partial_{\theta} f_{i\alpha} \, \partial^{\theta} f^{\alpha i} - t_{2} \, \partial_{\theta} f_{i\alpha} \, \partial^{\theta} f^{\alpha i} - t_{2} \, \partial_{\theta} f_{i\alpha} \, \partial^{\theta} f^{\alpha i} - t_{2} \, \partial_{\theta} f_{i\alpha} \, \partial^{\theta} f^{\alpha i} - t_{2} \, \partial_{\theta} f_{i\alpha} \, \partial^{\theta} f^{\alpha i} - t_{2} \, \partial_{\theta} f_{i\alpha} \, \partial^{\theta} f^{\alpha i} - t_{2} \, \partial_{\theta} f^{\alpha i} - t_{2} \, \partial_{\theta} f^{\alpha i} + t_{2} \, \partial_{\theta} f^{\alpha i} - t_{2} \, \partial_{\theta} f^{\alpha i} - t_{2} \, \partial_{\theta} f^{\alpha i} + t_{2} \, \partial_{\theta} f^{\alpha i} - t_{2} \, \partial_{\theta} f$

Wave operator



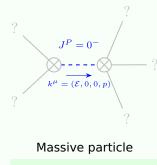
Saturated propagator



Source constraints

Spin-parity form	Covariant form	Multiplicities
$0.^{+}\tau^{\perp} == 0$	$\partial_{\beta}\partial_{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\beta}==0$	1
$0.^+ \tau^{\parallel} == 0$	$\partial_{\beta}\partial_{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\beta} == \partial_{\beta}\partial^{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\alpha}_{\alpha}$	1
1 τ ^{μα} == 0	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\beta\chi}==\partial_{\chi}\partial^{\chi}\partial_{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\beta}$	3
1- _τ ^α == 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
$1 \cdot \sigma^{\perp \alpha} == 0$	$\partial_{\chi}\partial_{\beta}\sigma^{\beta\alpha\chi}=0$	3
$\frac{1}{ \alpha ^{\alpha}} = 0$	$\partial_{\delta}\partial^{\alpha}\sigma_{\chi}^{\chi}{}^{\delta} + \partial_{\delta}\partial^{\delta}\sigma_{\chi}^{\alpha}{}_{\chi} == \partial_{\delta}\partial_{\chi}\sigma^{\chi\alpha\delta}$	3
$i k 1^+_{\cdot} \sigma^{\parallel^{\alpha\beta}} + 1^+_{\cdot} \tau^{\parallel^{\alpha\beta}} =$	$= 0 \ \partial_{\chi} \partial^{\alpha} \tau \left(\Delta + \mathcal{K} \right)^{\beta \chi} + \partial_{\chi} \partial^{\beta} \tau \left(\Delta + \mathcal{K} \right)^{\chi \alpha} + \partial_{\chi} \partial^{\chi} \tau \left(\Delta + \mathcal{K} \right)^{\alpha \beta} + \partial_{\delta} \partial_{\chi} \partial^{\beta} \sigma^{\chi \alpha \delta} + \partial_{\delta} \partial^{\delta} \partial_{\chi} \sigma^{\alpha \beta \chi} = =$	3
	$\partial_{\chi}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\chi\beta}+\partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\chi}+\partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\beta\alpha}+\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\chi\beta\delta}+\partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\beta\alpha\chi}$	
$1^+ \sigma^{\parallel^{\alpha\beta}} = 1^+ \sigma^{\perp^{\alpha\beta}}$	$3 \partial_{\delta} \partial_{\chi} \partial^{\alpha} \sigma^{\chi \beta \delta} + \partial_{\delta} \partial^{\delta} \partial_{\chi} \sigma^{\beta \alpha \chi} + 2 \partial_{\delta} \partial^{\delta} \partial_{\chi} \sigma^{\chi \alpha \beta} = 3 \partial_{\delta} \partial_{\chi} \partial^{\beta} \sigma^{\chi \alpha \delta} + \partial_{\delta} \partial^{\delta} \partial_{\chi} \sigma^{\alpha \beta \chi}$	3
$2 \cdot \sigma^{\parallel \alpha \beta \chi} == 0$	$3 \partial_{\epsilon} \partial_{\delta} \partial^{\chi} \partial^{\alpha} \sigma^{\delta \beta \epsilon} + 3 \partial_{\epsilon} \partial^{\epsilon} \partial^{\chi} \partial^{\alpha} \sigma^{\delta \beta}_{ \delta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\beta} \sigma^{\alpha \chi \delta} + 4 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\beta} \sigma^{\chi \alpha \delta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\beta} \sigma^{\delta \alpha \chi} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\chi} \sigma^{\beta \alpha \delta} +$	5
	$4\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\chi}\sigma^{\delta\alpha\beta} + 2\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\alpha\beta\chi} + 3\eta^{\beta\chi}\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial^{\alpha}\sigma^{\delta}_{\delta}{}^{\epsilon} + 3\eta^{\alpha\chi}\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial_{\delta}\sigma^{\delta\beta\epsilon} + 3\eta^{\beta\chi}\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial^{\epsilon}\sigma^{\delta\alpha}_{\delta} = =$	
	$3 \partial_{\epsilon} \partial_{\delta} \partial^{\chi} \partial^{\beta} \sigma^{\delta \alpha \epsilon} + 3 \partial_{\epsilon} \partial^{\epsilon} \partial^{\chi} \partial^{\beta} \sigma^{\delta \alpha}_{ \delta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\alpha} \sigma^{\beta \chi \delta} + 4 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\alpha} \sigma^{\chi \beta \delta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\alpha} \sigma^{\delta \beta \chi} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\chi} \sigma^{\alpha \beta \delta} +$	
	$2\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\beta\alpha\chi} + 4\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\chi\alpha\beta} + 3\eta^{\alpha\chi}\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial^{\beta}\sigma^{\delta}_{\delta} + 3\eta^{\beta\chi}\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial_{\delta}\sigma^{\delta\alpha\epsilon} + 3\eta^{\alpha\chi}\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial^{\epsilon}\sigma^{\delta\beta}_{\delta}$	
$2^+_{\cdot \tau} \parallel^{\alpha \beta} == 0$	$4 \partial_{\delta} \partial_{\chi} \partial^{\beta} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\chi \delta} + 2 \partial_{\delta} \partial^{\delta} \partial^{\beta} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\chi}_{\chi} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi} \tau (\Delta + \mathcal{K})^{\alpha \beta} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi} \tau (\Delta + \mathcal{K})^{\beta \alpha} + 2 \eta^{\alpha \beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi} \tau (\Delta + \mathcal{K})^{\chi \delta} = 0$	5
	$3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\beta \chi} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\chi \beta} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\beta} \tau (\Delta + \mathcal{K})^{\alpha \chi} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\beta} \tau (\Delta + \mathcal{K})^{\chi \alpha} + 2 \eta^{\alpha \beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\delta} \tau (\Delta + \mathcal{K})^{\chi}$	
$2^+ \sigma^{\parallel^{\alpha\beta}} == 0$	$3 \partial_{\delta} \partial_{\chi} \partial^{\alpha} \sigma^{\chi \beta \delta} + 3 \partial_{\delta} \partial_{\chi} \partial^{\beta} \sigma^{\chi \alpha \delta} + 2 \eta^{\alpha \beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \sigma^{\chi}_{\chi}^{\delta} = 2 \partial_{\delta} \partial^{\beta} \partial^{\alpha} \sigma^{\chi}_{\chi}^{\delta} + 3 (\partial_{\delta} \partial^{\delta} \partial_{\chi} \sigma^{\alpha \beta \chi} + \partial_{\delta} \partial^{\delta} \partial_{\chi} \sigma^{\beta \alpha \chi})$	5
Total expected gauge generators:		35

Massive spectrum



Pole residue:	$-\frac{1}{r_{\cdot}^{2}} > 0$
Square mass:	$\frac{t}{r} > 0$
Spin:	0
Parity:	Odd

Massless spectrum

(No particles)

Unitarity conditions

r. < 0 && t. > 0