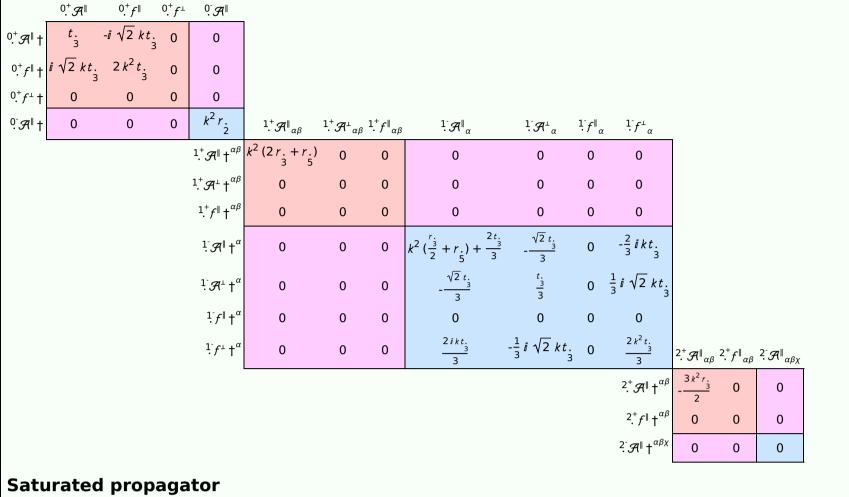
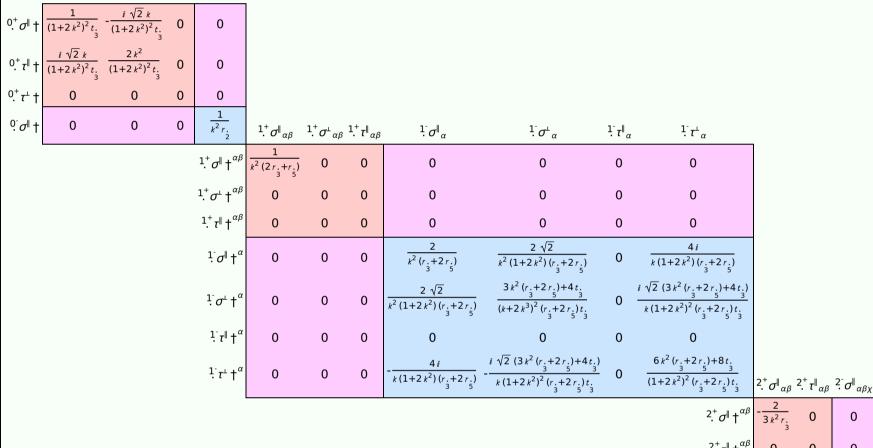
PSALTer results panel $S = \iiint (\frac{1}{6} (-4t_{3} \mathcal{A}^{\alpha_{i}}_{\alpha} \mathcal{A}^{\theta}_{i} + 6 \mathcal{A}^{\alpha\beta\chi} \sigma_{\alpha\beta\chi} + 6 f^{\alpha\beta} \tau (\Delta + \mathcal{K})_{\alpha\beta} + 8t_{3} \mathcal{A}^{\theta}_{\alpha} \partial_{i} f^{\alpha_{i}} - 3r_{3} \partial_{\beta} \mathcal{A}^{\theta}_{i} \partial_{i} \mathcal{A}^{\alpha\beta}_{\alpha} - 3r_{3} \partial_{i} \mathcal{A}^{\theta}_{\beta} \partial_{i} \mathcal{A}^{\alpha\beta}_{\alpha} - 8t_{3} \mathcal{A}^{\theta}_{i} \partial_{i} f^{\alpha}_{\alpha} + 4t_{3} \partial_{i} f^{\theta}_{\theta} \partial_{i} f^{\alpha}_{\alpha} - 3r_{3} \partial_{\alpha} \mathcal{A}^{\alpha\beta_{i}} \partial_{\theta} \mathcal{A}^{\theta}_{\beta} + 6r_{3} \partial_{i} \mathcal{A}^{\alpha\beta}_{\alpha} \partial_{\theta} \mathcal{A}^{\theta}_{\beta} - 3r_{3} \partial_{\alpha} \mathcal{A}^{\alpha\beta_{i}} \partial_{\theta} \mathcal{A}^{\theta}_{\beta} + 6r_{3} \partial_{i} \mathcal{A}^{\alpha\beta_{i}} \partial_{\theta} \mathcal{A}^{\theta}_{\beta} + 6r_{3} \partial_{i} \mathcal{A}^{\alpha\beta_{i}} \partial_{\theta} \mathcal{A}^{\beta}_{\beta} + 6r_{3} \partial_{i} \mathcal{A}^{\alpha\beta_{i}} \partial_{\theta} \mathcal{A}^{\beta}_{\beta} + 4t_{3} \partial_{i} f^{\alpha_{i}} \partial_{\theta} f^{\alpha}_{\alpha} - 8t_{3} \partial_{i} f^{\alpha_{i}} \partial_{\theta} f^{\alpha}_{\alpha} - 8t_{3} \partial_{i} \mathcal{A}^{\alpha\beta_{i}} \partial_{\theta} \mathcal{A}^{\beta_{i}} - 3r_{3} \partial_{\alpha} \mathcal{A}^{\alpha\beta_{i}} \partial_{\theta} \mathcal{A}^{\beta_{i}}_{\beta} + 6r_{3} \partial_{i} \mathcal{A}^{\alpha\beta_{i}} \partial_{\theta} \mathcal{A}^{\beta_{i}}_{\beta} + 6r_{3} \partial_{i} \mathcal{A}^{\alpha\beta_{i}} \partial_{\theta} \mathcal{A}^{\beta_{i}}_{\beta} + 4t_{3} \partial_{i} f^{\alpha_{i}} \partial_{\theta} f^{\alpha}_{\alpha} - 8t_{3} \partial_{i} f^{\alpha_{i}} \partial_{\theta} f^{\alpha_{i}}_{\alpha} - 8t_{3} \partial_{i} f^{\alpha_{i}} \partial_{\theta} \mathcal{A}^{\beta_{i}}_{\beta} - 3r_{3} \partial_{\alpha} \mathcal{A}^{\alpha\beta_{i}} \partial_{\theta} \mathcal{A}^{\alpha\beta_{i}}_{\beta} + 6r_{3} \partial_{i} \mathcal{A}^{\alpha\beta_{i}} \partial_{\theta} \mathcal{A}^{\beta_{i}}_{\beta} + 6r_{3} \partial_{i} \mathcal{A}^{\alpha\beta_{i}}_{\beta} \partial_{i} \mathcal{A}^{\alpha\beta_{i}}_{\beta} - 24r_{3} \partial_{i} \mathcal{A}^{\alpha\beta_{i}}_{\beta} \partial_{i} \mathcal{A}^{\alpha\beta_{i}}_{\beta} - 24r_{3} \partial_{i} \mathcal{A}^{\alpha\beta_{i}}_{\beta} \partial_{i} \mathcal{A}^{\alpha\beta_{i}}_{\beta} - 4r_{3} \partial_{i} \mathcal{A}^{\alpha\beta_{i}}_{\beta} \partial_{i} \mathcal{A}^{\alpha\beta_{i}}_{\beta} - 6r_{3} \partial_{i} \mathcal{A}^{\alpha\beta_{i}}_{\beta} \partial_{i} \mathcal{A}^{\alpha\beta_{i}}_{\beta} \partial_{i} \mathcal{A}^{\alpha\beta_{i}}_{\beta} - 4r_{3} \partial_{i} \mathcal{A}^{\alpha\beta_{i}}_{\beta} \partial_{i} \mathcal{A}^{\alpha\beta_{i}}_{\beta} - 6r_{3} \partial_{i} \mathcal{A}^{\alpha\beta_{i}}_{\beta} \partial_{i} \mathcal{A}^{\alpha\beta_{i}}_{\beta} \partial_{i} \mathcal{A}^{\alpha\beta_{i}}_{\beta} - 4r_{3} \partial_{i} \mathcal{A}^{\alpha\beta_{$

Wave operator



0^+ σ^{\parallel} 0^+ τ^{\parallel} 0^+ τ^{\perp} $0^ \sigma^{\parallel}$



Spin-parity form | Covari

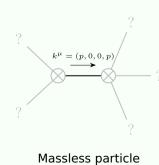
Source constraints

Spin-parity form	Covariant form	Multiplicities
0. ⁺ τ [⊥] == 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
$1^+_{\cdot} \tau^{\parallel^{\alpha\beta}} == 0$	$\partial_{\chi}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\beta\chi}+\partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\chi\alpha}+\partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\beta}==\partial_{\chi}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\chi\beta}+\partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\chi}+\partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\beta\alpha}$	3
$1^+_{\cdot}\sigma^{\mu}^{\alpha\beta} == 0$	$\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\chi\beta\delta} + \partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\chi\alpha\beta} == \partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\chi\alpha\delta}$	3
$2^{-}\sigma^{\parallel^{\alpha\beta\chi}}=0$	$3 \partial_{\epsilon} \partial_{\delta} \partial^{\chi} \partial^{\alpha} \sigma^{\delta \beta \epsilon} + 3 \partial_{\epsilon} \partial^{\epsilon} \partial^{\chi} \partial^{\alpha} \sigma^{\delta \beta}_{ \delta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\beta} \sigma^{\alpha \chi \delta} + 4 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\beta} \sigma^{\chi \alpha \delta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\beta} \sigma^{\delta \alpha \chi} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\chi} \sigma^{\delta \alpha \delta} + 2 \partial_{\epsilon} \partial^{\alpha} \partial$	5
	$4\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\chi}\sigma^{\delta\alpha\beta} + 2\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\alpha\beta\chi} + 3\eta^{\beta\chi}\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial^{\alpha}\sigma^{\delta}_{\delta}{}^{\epsilon} + 3\eta^{\alpha\chi}\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial_{\delta}\sigma^{\delta\beta\epsilon} + 3\eta^{\beta\chi}\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial^{\epsilon}\sigma^{\delta\alpha}_{\delta} = =$	
	$3 \partial_{\epsilon} \partial_{\delta} \partial^{\chi} \partial^{\beta} \sigma^{\delta \alpha \epsilon} + 3 \partial_{\epsilon} \partial^{\epsilon} \partial^{\chi} \partial^{\beta} \sigma^{\delta \alpha}_{ \delta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\alpha} \sigma^{\beta \chi \delta} + 4 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\alpha} \sigma^{\chi \beta \delta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\alpha} \sigma^{\delta \beta \chi} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\chi} \sigma^{\alpha \beta \delta} +$	
	$2\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\beta\alpha\chi} + 4\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\chi\alpha\beta} + 3\eta^{\alpha\chi}\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial^{\beta}\sigma^{\delta}_{\delta} + 3\eta^{\beta\chi}\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial_{\delta}\sigma^{\delta\alpha\epsilon} + 3\eta^{\alpha\chi}\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial^{\epsilon}\sigma^{\delta\beta}_{\delta}$	
$2^+_{\cdot} \tau^{\parallel^{\alpha\beta}} == 0$	$4\partial_{\delta}\partial_{\chi}\partial^{\beta}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\delta}+2\partial_{\delta}\partial^{\delta}\partial^{\beta}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi}_{\ \chi}+3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}\tau(\Delta+\mathcal{K})^{\alpha\beta}+$	5
	$3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}\tau(\Delta+\mathcal{K})^{\beta\alpha}+2\eta^{\alpha\beta}\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial_{\chi}\tau(\Delta+\mathcal{K})^{\chi\delta}==3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\beta\chi}+$	
	$3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}+3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\beta}\tau(\Delta+\mathcal{K})^{\alpha\chi}+3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\beta}\tau(\Delta+\mathcal{K})^{\chi\alpha}+2\eta^{\alpha\beta}\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\tau(\Delta+\mathcal{K})^{\chi}_{\chi}$	
Total expected gauge generators:		

Massive spectrum

(No particles)

Massless spectrum



Pole residue: $\left| -\frac{26}{r} + \frac{39}{2r+r} - \frac{216}{r+2r} \right| > 0$

	7. 3	2r.+r. 3 5	r.+2r. 3 5		
Polarisations:	2				
Unitarity conditions					

 $(r_{.} < 0 \&\& (r_{.} < -\frac{r_{.}}{2} || r_{.} > -2 r_{.})) || (r_{.} > 0 \&\& -2 r_{.} < r_{.} < -\frac{r_{.}}{2})$