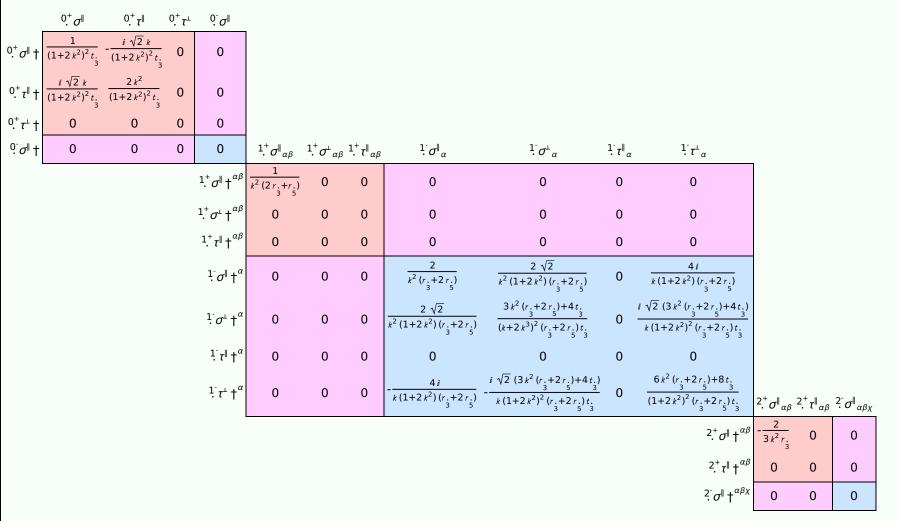
PSALTer results panel

$$S = \iiint (\mathcal{A}^{\alpha\beta\chi} \ \sigma_{\alpha\beta\chi} + f^{\alpha\beta} \ \tau (\Delta + \mathcal{K})_{\alpha\beta} - \frac{2}{3} t_{3} (\mathcal{A}^{\alpha_{\alpha}} \ \mathcal{A}^{\theta}_{i \theta} - 2 \ \mathcal{A}^{\theta}_{\alpha \theta} \ \partial_{i} f^{\alpha_{i}} + 2 \ \mathcal{A}^{\theta}_{i \theta} \ \partial^{i} f^{\alpha}_{\alpha} - \partial_{i} f^{\theta}_{\theta} \ \partial^{i} f^{\alpha}_{\alpha} - \partial_{i} f^{\alpha_{i}} \partial_{\theta} f^{\theta}_{\alpha} + 2 \ \partial^{i} f^{\alpha}_{\alpha} \partial_{\theta} f^{\theta}_{i}) - \frac{1}{2} r_{3} (\partial_{\beta} \mathcal{A}^{\theta}_{i \theta} \partial^{i} \mathcal{A}^{\alpha\beta}_{\alpha} + \partial_{i} \mathcal{A}^{\theta}_{\beta} \partial^{i} \mathcal{A}^{\alpha\beta}_{\alpha} + \partial_{\alpha} \mathcal{A}^{\alpha\beta_{i}} \partial_{\theta} \mathcal{A}^{\theta}_{\beta}, -2 \partial^{i} \mathcal{A}^{\alpha\beta}_{\alpha} \partial_{\theta} \mathcal{A}^{\theta}_{\beta}, +\partial_{\alpha} \mathcal{A}^{\alpha\beta_{i}} \partial_{\theta} \mathcal{A}^{\theta}_{\beta}, +\partial_{\alpha} \mathcal{A}^{\alpha\beta_{i}} \partial_{\theta} \mathcal{A}^{\theta}_{\beta}, +\partial_{\alpha} \mathcal{A}^{\alpha\beta_{i}} \partial_{\theta} \mathcal{A}^{\theta}_{\beta}, -2 \partial^{i} \mathcal{A}^{\alpha\beta}_{\alpha} \partial_{\theta} \mathcal{A}^{\theta}_{\beta}, +2 \partial^{i} \mathcal{A}^{\alpha\beta}_{\alpha} \partial_{\theta} \mathcal{A}^{\theta}_{\beta}, +2 \partial^{i} \mathcal{A}^{\alpha\beta_{i}} \partial_{\theta} \mathcal{A}^{\beta}_{\beta}, +2 \partial^{i} \mathcal{A}^{\alpha\beta_{i}} \partial_{\beta$$

Wave operator

	${}^{0^{+}}\!\mathcal{F}^{\parallel}$	$0.^+f^{\parallel}$	$0.^+f^{\perp}$	$^{0}\mathcal{A}^{\parallel}$										
^{0,+} <i>Я</i> ∥†	<i>t</i> . 3	-i √2 kt.	0	0										
0.+ <i>f</i> †	$i\sqrt{2} kt$.	$2k^2t$.	0	0										
$0.^{+}f^{\perp}$ †	0	0	0	0										
^{0.} Æ [∥] †	0	0	0	0	$^{1.}_{\cdot}\mathcal{F}^{\parallel}{}_{lphaeta}$	$^{1.}^+\mathcal{F}^{\perp}_{lpha_{l}}$	$_{\beta}$ $1^{+}_{\cdot}f^{\parallel}_{\alpha\beta}$	${^1\mathcal{H}^{\parallel}}_{\alpha}$	$^{1}\mathcal{H}^{\perp}{}_{lpha}$	$^{1}f^{\parallel}_{\alpha}$	$\frac{1}{f}^{\perp}_{\alpha}$			
				$^{1^{+}}\mathcal{H}^{\parallel}$ † lphaeta	$k^2 (2r_1 + r_1)$	0	0	0	0	0	0			
				$^{1^+}\mathcal{H}^{\scriptscriptstyle\perp}\dagger^{^lphaeta}$	0	0	0	0	0	0	0			
				$\overset{1}{\cdot}f^{\parallel}\uparrow^{lphaeta}$	0	0	0	0	0	0	0			
				$^{1}\mathcal{A}^{\parallel}$ † lpha	0	0	0	$k^2 \left(\frac{r}{3} + r\right) + \frac{2t}{3}$	$-\frac{\sqrt{2} t_{\frac{1}{3}}}{3}$	0	$-\frac{2}{3}ikt$.			
				$\frac{1}{2}\mathcal{H}^{\perp} \uparrow^{\alpha}$	0	0	0	$-\frac{\sqrt{2} t_{3}}{3}$	t. 3 3	0	$\frac{1}{3}i\sqrt{2}kt.$			
				$^{1}f^{\parallel}\dagger^{\alpha}$	0	0	0	0	0	0	0			
				$\frac{1}{2}f^{\perp}\uparrow^{\alpha}$	0	0	0	$\frac{2ikt.}{3}$	$-\frac{1}{3}i\sqrt{2}kt$	0	$\frac{2 k^2 t}{3}$	$2^+\mathcal{A}^{\parallel}_{\alpha\beta}$	$2^+f^{\parallel}_{\alpha\beta}$	$2^{-}\mathcal{H}^{\parallel}_{\alpha\beta\chi}$
											$^{2^{+}}\mathcal{A}^{\parallel}$ † $^{\alpha\beta}$	$-\frac{3k^2r}{2}$	0	0
											$2^+ f^{\parallel} \dagger^{\alpha\beta}$	0	0	0
											$^{2}\mathcal{H}^{\parallel}$ † $^{lphaeta\chi}$	0	0	0

Saturated propagator



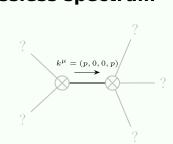
Source constraints

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

Massive spectrum

(No particles)

Massless spectrum



Massless particle

Pole residue:	$-\frac{26}{r_{.3}}$ +	$\frac{39}{2r.+r.}$	$\frac{216}{r_1 + 2r_2} > 0$
Polarisations:	2		

Unitarity conditions

$$(r. < 0 \&\& (r. < -\frac{r.}{3} || r. > -2 r.)) || (r. > 0 \&\& -2 r. < r. < -\frac{r.}{3})$$