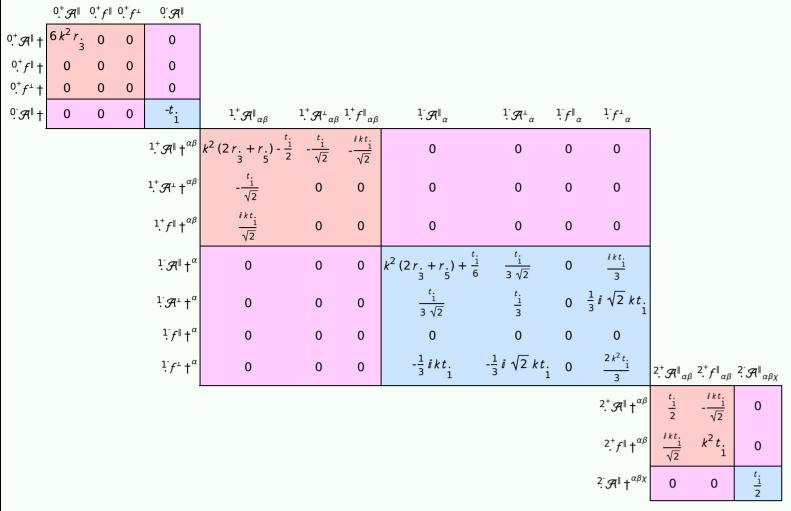
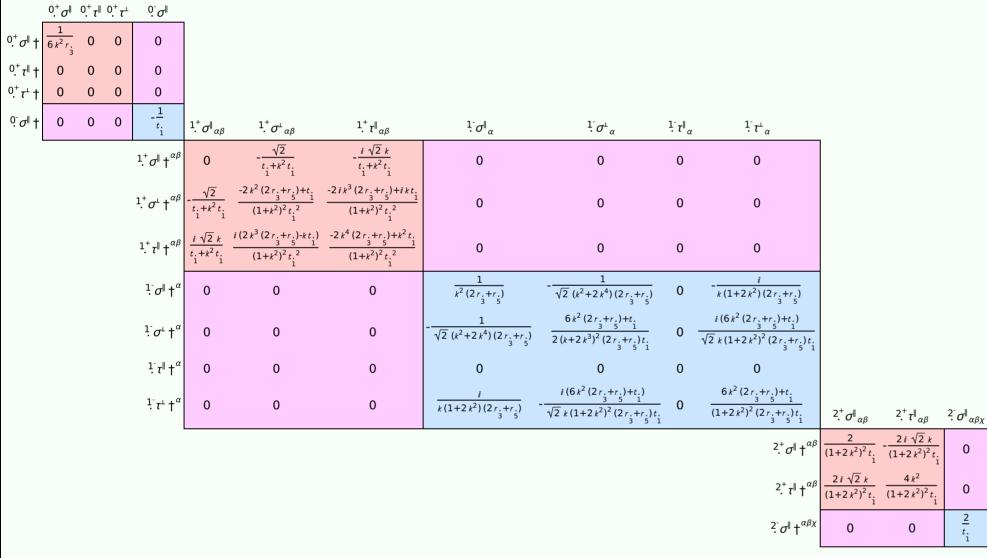
PSALTer results panel

 $S = \iiint (\mathcal{R}^{\alpha\beta\chi} \ \sigma_{\alpha\beta\chi} + f^{\alpha\beta} \ \tau (\Delta + \mathcal{K})_{\alpha\beta} - 2r_{,3} (\partial_{\beta}\mathcal{R}^{\theta}_{,\,\theta} \partial^{i}\mathcal{R}^{\alpha\beta}_{,\,\alpha} + \partial_{\alpha}\mathcal{R}^{\alpha\betai} \partial_{\theta}\mathcal{R}^{\theta}_{,\,\alpha} + \partial_{\alpha}\mathcal{R}^{\alpha\betai} \partial_{\theta}\mathcal{R}^{\theta}_{,\,\beta} - 2\partial^{i}\mathcal{R}^{\alpha\beta}_{,\,\alpha} \partial_{\theta}\mathcal{R}^{\theta}_{,\,\beta} + 2\partial_{\beta}\mathcal{R}^{\alpha\beta}_{,\,\alpha} \partial_{\theta}\mathcal{R}^{\theta}_{,\,\beta} + 2\partial_{\beta}\mathcal{R}^{\alpha\betai}_{,\,\theta} \partial^{i}\mathcal{R}^{\alpha\betai}) + \frac{1}{6}t_{,1}(2\mathcal{R}^{\alpha_{i}} \ \mathcal{R}^{\theta}_{,\,\theta} - 4\mathcal{R}^{\theta}_{,\,\theta} \partial_{i}\mathcal{R}^{\alpha_{i}} + 4\mathcal{R}^{\theta}_{,\,\theta} \partial^{i}\mathcal{R}^{\alpha_{i}} - 2\partial_{i}\mathcal{R}^{\alpha_{i}} \partial_{\theta}\mathcal{R}^{\alpha_{i}} + 4\mathcal{R}^{\alpha\betai}_{,\,\theta} \partial_{\theta}\mathcal{R}^{\alpha_{i}}) + \frac{1}{6}t_{,1}(2\mathcal{R}^{\alpha_{i}} \ \mathcal{R}^{\alpha_{i}} - 4\mathcal{R}^{\theta}_{,\,\theta} \partial_{i}\mathcal{R}^{\alpha_{i}} + 4\mathcal{R}^{\theta}_{,\,\theta} \partial^{i}\mathcal{R}^{\alpha_{i}} - 2\partial_{i}\mathcal{R}^{\alpha_{i}} \partial_{\theta}\mathcal{R}^{\alpha_{i}}) + 2\partial_{\theta}\mathcal{R}^{\alpha_{i}} \partial_{\theta}\mathcal{R}^{\alpha_{i}} + 2\partial_{\theta}\mathcal{R}^{\alpha_{i}} \partial_{\theta}\mathcal{R}^{\alpha_{i}}) + \frac{1}{6}t_{,1}(2\mathcal{R}^{\alpha_{i}} \ \mathcal{R}^{\alpha_{i}} - 4\mathcal{R}^{\theta}_{,\,\theta} \partial_{i}\mathcal{R}^{\alpha_{i}} + 4\mathcal{R}^{\theta}_{,\,\theta} \partial^{i}\mathcal{R}^{\alpha_{i}} - 2\partial_{i}\mathcal{R}^{\alpha_{i}} \partial_{\theta}\mathcal{R}^{\alpha_{i}}) + 2\partial_{\theta}\mathcal{R}^{\alpha_{i}} \partial_{\theta}\mathcal{R}^{\alpha_{i}} + 2\partial_{\theta}\mathcal{R}^{\alpha_{i}} \partial_{\theta}\mathcal{R}^{\alpha_{i}}) + 2\partial_{\theta}\mathcal{R}^{\alpha_{i}} \partial_{\theta}\mathcal{R}^{\alpha_{i}} \partial_{\theta}\mathcal{R}^{\alpha_{i}} + 2\partial_{\theta}\mathcal{R}^{\alpha_{i}} \partial_{\theta}\mathcal{R}^{\alpha_{i}} \partial_{\theta}\mathcal{R}^$

Wave operator



Saturated propagator



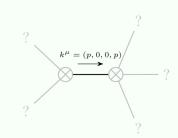
Source constraints

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

Massive spectrum

(No particles)

Massless spectrum



Massless particle

Pole residue:	$-\frac{7}{2r_1+r_5} + \frac{-2t_1}{3}$	$\frac{p^2 - 4(2r_1 + r_1)p^4}{t_1^2} > 0$
Polarisations:	2	

Unitarity conditions

 $r. \in \mathbb{R} \&\& r. < -2r. \&\& (t. < 0 || t. > 0)$