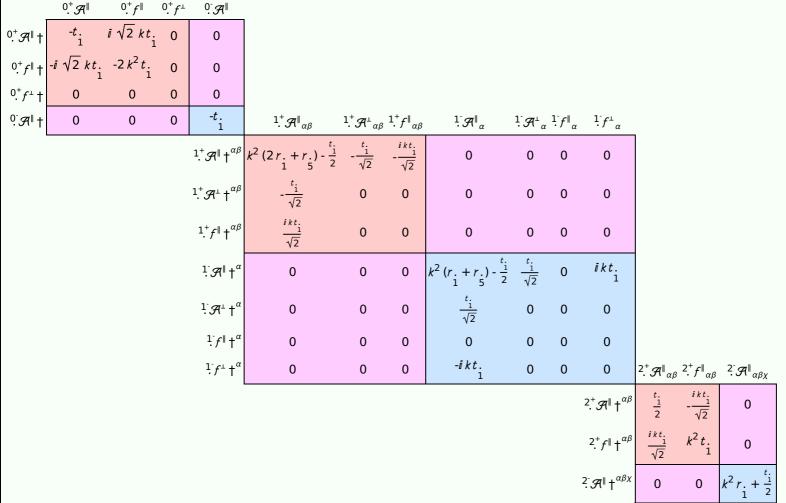
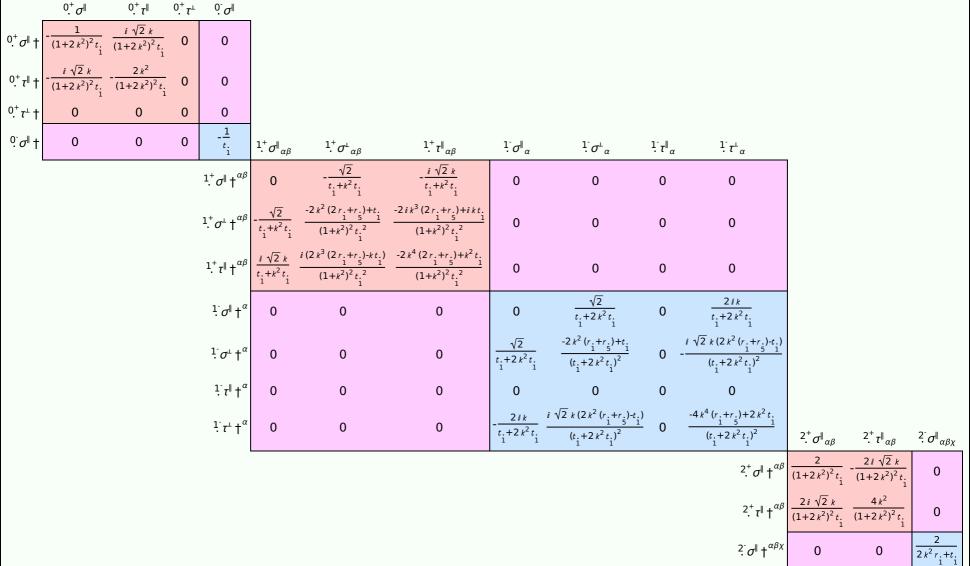
PSALTer results panel $S = \frac{1}{1} \int \int (\mathcal{A}^{\alpha\beta\chi} \sigma_{\alpha\beta\chi} + f^{\alpha\beta} \tau(\Delta + \mathcal{K})_{\alpha\beta} - \frac{2}{3} r_{\dot{1}} (2 \partial_{\beta} \mathcal{A}_{\alpha i \theta} - \partial_{\beta} \mathcal{A}_{\alpha \theta i} + 4 \partial_{\beta} \mathcal{A}_{i \theta \alpha} + \partial_{i} \mathcal{A}_{\alpha \beta \theta} - \partial_{\theta} \mathcal{A}_{\alpha i \beta}) \partial^{\theta} \mathcal{A}^{\alpha \beta i} + \frac{1}{2} t_{\dot{1}} (2 \mathcal{A}^{\alpha i}_{\alpha} \mathcal{A}_{i \theta}^{\theta} - 4 \mathcal{A}_{\alpha \theta}^{\theta} \partial_{i} f^{\alpha i} + 4 \mathcal{A}_{i \theta}^{\theta} \partial^{i} f^{\alpha}_{\alpha} - 2 \partial_{i} \mathcal{A}_{i \theta}^{\theta} \partial_{i} f^{\alpha i} + 4 \mathcal{A}_{i \theta}^{\theta} \partial_{i} f^{\alpha i} + 4$

$\iiint (\mathcal{A}^{\alpha\beta\chi} \ \sigma_{\alpha\beta\chi} + f^{\alpha\beta} \ \tau (\Delta + \mathcal{K})_{\alpha\beta} - \frac{2}{3} r_{1} (2 \, \partial_{\beta} \mathcal{A}_{\alpha_{i}\theta} - \partial_{\beta} \mathcal{A}_{\alpha_{\theta_{i}}} + 4 \, \partial_{\beta} \mathcal{A}_{i_{\theta_{\alpha}}} + \partial_{i} \mathcal{A}_{\alpha_{\beta\theta}} - \partial_{\theta} \mathcal{A}_{\alpha_{\beta_{i}}} - \partial_{\theta} \mathcal{A}_{\alpha_{i}\beta}) \, \partial^{\theta} \mathcal{A}^{\alpha\beta_{i}} + \frac{1}{2} t_{1} (2 \, \mathcal{A}^{\alpha_{i}}_{\alpha} \ \mathcal{A}^{\theta}_{i} - 4 \, \mathcal{A}^{\theta}_{\alpha \theta} \ \partial_{i} f^{\alpha_{i}} + 4 \, \mathcal{A}^{\theta}_{i \theta} \ \partial^{i} f^{\alpha}_{\alpha} - 2 \, \partial_{i} f^{\alpha_{i}} \partial_{\theta} f^{\alpha_{i}} - \partial_{\alpha} f^{\alpha_{i}}_{i \theta} \partial^{\theta} f^{\alpha_{i}} - \partial_{\alpha} f^{\alpha_{i}}_{i \theta} \partial^{\theta} f^{\alpha_{i}} + \partial_{i} f^{\alpha_{i}}_{\alpha} \partial^{\theta} f^{\alpha_{i}} + \partial_{\theta} f^{\alpha_{i}}_{\alpha} \partial^{\theta} f^{\alpha_{i}} + \partial_{\theta} f^{\alpha_{i}}_{\alpha} \partial^{\theta} f^{\alpha_{i}} + \partial_{\theta} f^{\alpha_{i}}_{\alpha} \partial^{\theta} f^{\alpha_{i}} + 2 \, \partial^{\theta} f^{\alpha_{i}})) + r_{1} (\partial_{i} \mathcal{A}^{\kappa}_{\theta} \mathcal{A}^{\alpha_{i}}_{\alpha} - \partial_{\theta} \mathcal{A}^{\kappa}_{i \kappa} \partial^{\theta} \mathcal{A}^{\alpha_{i}}_{\alpha} - (\partial_{\alpha} \mathcal{A}^{\alpha_{i}\theta} - 2 \, \partial^{\theta} \mathcal{A}^{\alpha_{i}}_{\alpha}) (\partial_{\kappa} \mathcal{A}^{\kappa}_{i \theta} - \partial_{\kappa} \mathcal{A}^{\kappa}_{\theta}))) [t, x, y, z] dz dy dx dt$

Wave operator



Saturated propagator



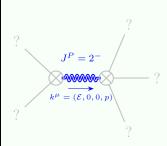
Source constraints

Spin-parity form	Covariant form	Multiplicities
$0.^{+}\tau^{\perp} == 0$	$\partial_{\beta}\partial_{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\beta} == 0$	1
$-2 \bar{i} k^{0,+} \sigma^{\parallel} + {}^{0,+} \tau^{\parallel} == 0$	$\partial_{\beta}\partial_{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\beta} = \partial_{\beta}\partial^{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\alpha}_{\alpha} + 2\partial_{\chi}\partial^{\chi}\partial_{\beta}\sigma^{\alpha}_{\alpha}^{\beta}$	1
$\frac{2ik 1 \sigma^{\perp \alpha} + 1 \tau^{\perp \alpha} == 0}{$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\beta\chi} = \partial_{\chi}\partial^{\chi}\partial_{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\beta} + 2\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial_{\beta}\sigma^{\beta\alpha\chi}$	3
1- _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
$i k \stackrel{1^+}{\cdot} \sigma^{\perp}^{\alpha\beta} + \stackrel{1^+}{\cdot} \tau^{\parallel}^{\alpha\beta} == 0$	$\partial_{\chi}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\beta\chi} + \partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\chi\alpha} + \partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\beta} + 2\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\chi\beta\delta} + 2\partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\chi\alpha\beta} = =$	3
	$\partial_{\chi}\partial^{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\chi\beta} + \partial_{\chi}\partial^{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\chi} + \partial_{\chi}\partial^{\chi}\tau \left(\Delta + \mathcal{K}\right)^{\beta\alpha} + 2 \partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\chi\alpha\delta}$	
$-2 i k 2^+ \sigma^{\parallel^{\alpha\beta}} + 2^+ \tau^{\parallel^{\alpha\beta}} == 0$	$-i\left(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^{\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^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\sigma(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\sigma(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\sigma(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\sigma(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\sigma(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\sigma(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\sigma(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\sigma(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\sigma(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\sigma(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\sigma(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\sigma(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\sigma(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\sigma(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\sigma(\Delta+\mathcal{K})^{\chi\beta}-3\partial_{\delta}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}$	5
	$3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\beta} \tau \left(\Delta + \mathcal{K} \right)^{\alpha \chi} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\beta} \tau \left(\Delta + \mathcal{K} \right)^{\chi \alpha} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi} \tau \left(\Delta + \mathcal{K} \right)^{\alpha \beta} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi} \tau \left(\Delta + \mathcal{K} \right)^{\beta \alpha} +$	
	$4 i k^{\chi} \partial_{\epsilon} \partial_{\chi} \partial^{\beta} \partial^{\alpha} \sigma^{\delta}_{\delta} - 6 i k^{\chi} \partial_{\epsilon} \partial_{\delta} \partial_{\chi} \partial^{\alpha} \sigma^{\delta \beta \epsilon} - 6 i k^{\chi} \partial_{\epsilon} \partial_{\delta} \partial_{\chi} \partial^{\beta} \sigma^{\delta \alpha \epsilon} + 6 i k^{\chi} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi} \sigma^{\alpha \beta \delta} +$	
	$6 i k^{\chi} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi} \sigma^{\beta \alpha \delta} + 2 \eta^{\alpha \beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi} \tau (\Delta + \mathcal{K})^{\chi \delta} - 2 \eta^{\alpha \beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\delta} \tau (\Delta + \mathcal{K})^{\chi}_{\chi} - 4 i \eta^{\alpha \beta} k^{\chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial_{\chi} \sigma^{\delta}_{\delta}{}^{\epsilon}) = 0$	

16

Massive spectrum

Total expected gauge generators:



Massive particle

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

Massless spectrum

(No particles)

Unitarity conditions

 $r_{1} < 0 \&\& t_{1} > 0$