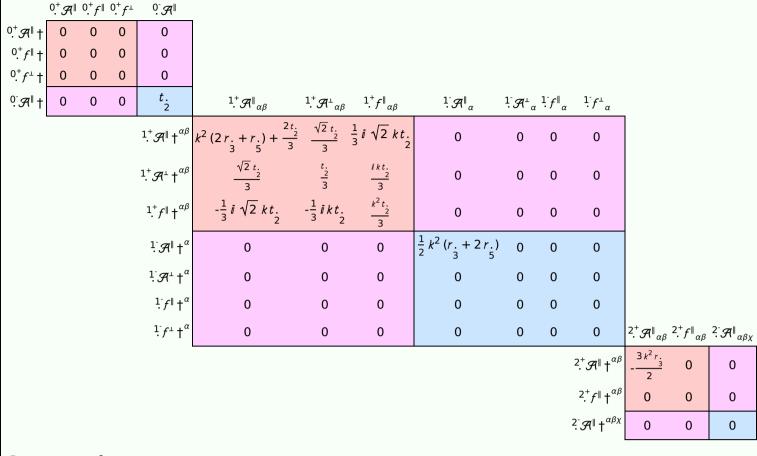
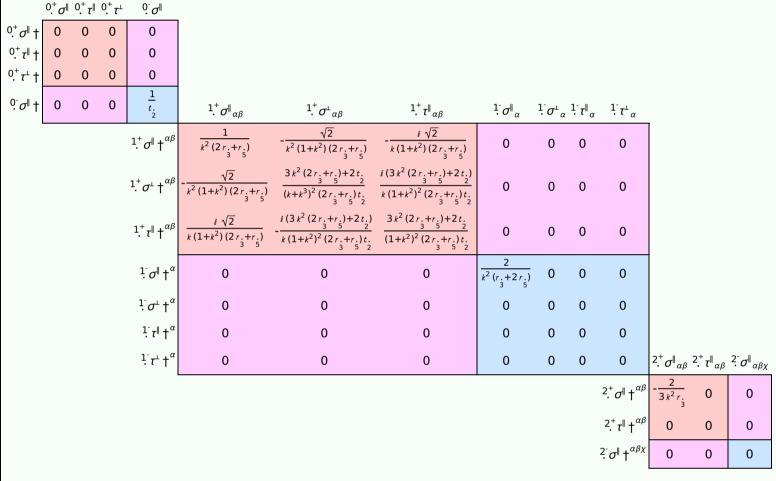
PSALTer results panel $S = \iiint \left(\frac{1}{6} \left(6 \, \mathcal{A}^{\alpha\beta\chi} \, \sigma_{\alpha\beta\chi} + 6 \, f^{\alpha\beta} \, \tau \, (\Delta + \mathcal{K})_{\alpha\beta} - 3 \, r_{,\,3} \, \partial_{\beta} \mathcal{A}_{,\,\,\theta}^{\ \theta} \, \partial^{i} \mathcal{A}^{\alpha\beta}_{\ \alpha} - 3 \, r_{,\,3} \, \partial_{i} \mathcal{A}_{\beta\,\,\theta}^{\ \theta} \, \partial^{i} \mathcal{A}^{\alpha\beta}_{\ \alpha} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} + 6 \, r_{,\,3} \, \partial^{i} \mathcal{A}^{\alpha\beta}_{\ \alpha} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} + 6 \, r_{,\,3} \, \partial^{i} \mathcal{A}^{\alpha\beta}_{\ \alpha} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} + 6 \, r_{,\,3} \, \partial^{i} \mathcal{A}^{\alpha\beta}_{\ \alpha} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\theta} \mathcal{A}_{\beta\,\,,}^{\ \theta} - 3 \, r_{,\,3} \, \partial_{\alpha} \mathcal{A}^{\alpha\beta i} \, \partial_{\alpha} \mathcal{$

 $6r_{.5}^{\alpha}\partial_{\alpha}\mathcal{R}^{\alpha_{i}\theta}\partial_{\kappa}\mathcal{R}_{,\theta}^{\kappa} + 12r_{.5}^{\alpha}\partial^{\theta}\mathcal{R}_{\alpha}^{\alpha_{i}}\partial_{\kappa}\mathcal{R}_{,\theta}^{\kappa} + 6r_{.5}^{\alpha}\partial_{\alpha}\mathcal{R}^{\alpha_{i}\theta}\partial_{\kappa}\mathcal{R}_{\theta}^{\kappa}, -12r_{.5}^{\alpha}\partial^{\theta}\mathcal{R}_{\alpha}^{\alpha_{i}}\partial_{\kappa}\mathcal{R}_{\theta}^{\kappa},))[t, x, y, z]dzdydxdt$

Wave operator



Saturated propagator



Source constraints

Covariant form	Multiplicities
$\partial_{\beta}\sigma^{\alpha}_{\alpha}{}^{\beta} == 0$	1
$\partial_{\beta}\partial_{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\beta} == \partial_{\beta}\partial^{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\alpha}_{\ \alpha}$	1
$\partial_{\beta}\partial_{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\beta} == 0$	1
$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\beta\chi}==\partial_{\chi}\partial^{\chi}\partial_{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\beta}$	3
$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\beta\chi}==\partial_{\chi}\partial^{\chi}\partial_{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\beta\alpha}$	3
$\partial_{\chi}\partial_{\beta}\sigma^{\beta\alpha\chi}==0$	3
$\partial_{\chi}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\beta\chi}+\partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\chi\alpha}+\partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\beta}+2\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\chi\beta\delta}+2\partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\chi\alpha\beta}==$	3
$\partial_{\chi}\partial^{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\chi\beta} + \partial_{\chi}\partial^{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\chi} + \partial_{\chi}\partial^{\chi}\tau \left(\Delta + \mathcal{K}\right)^{\beta\alpha} + 2\partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\chi\alpha\delta}$	
$3 \partial_{\epsilon} \partial_{\delta} \partial^{\chi} \partial^{\alpha} \sigma^{\delta \beta \epsilon} + 3 \partial_{\epsilon} \partial^{\epsilon} \partial^{\chi} \partial^{\alpha} \sigma^{\delta \beta}_{ \delta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\beta} \sigma^{\alpha \chi \delta} + 4 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\beta} \sigma^{\chi \alpha \delta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\beta} \sigma^{\delta \alpha \chi} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\chi} \sigma^{\delta \alpha \delta} +$	5
$4 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\chi} \sigma^{\delta \alpha \beta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\delta} \sigma^{\alpha \beta \chi} + 3 \eta^{\beta \chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial^{\alpha} \sigma^{\delta}_{ \delta} + 3 \eta^{\alpha \chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial_{\delta} \sigma^{\delta \beta \epsilon} + 3 \eta^{\beta \chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial^{\epsilon} \sigma^{\delta \alpha}_{ \delta} = 0$	
$3 \partial_{\epsilon} \partial_{\delta} \partial^{\chi} \partial^{\beta} \sigma^{\delta \alpha \epsilon} + 3 \partial_{\epsilon} \partial^{\epsilon} \partial^{\chi} \partial^{\beta} \sigma^{\delta \alpha}_{ \delta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\alpha} \sigma^{\beta \chi \delta} + 4 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\alpha} \sigma^{\chi \beta \delta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\alpha} \sigma^{\delta \beta \chi} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\chi} \sigma^{\alpha \beta \delta} +$	
$2\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\beta\alpha\chi} + 4\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\chi\alpha\beta} + 3\eta^{\alpha\chi}\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial^{\beta}\sigma^{\delta}_{\delta}{}^{\epsilon} + 3\eta^{\beta\chi}\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial_{\delta}\sigma^{\delta\alpha\epsilon} + 3\eta^{\alpha\chi}\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial^{\epsilon}\sigma^{\delta\beta}_{\delta}$	
$4 \partial_{\delta} \partial_{\chi} \partial^{\beta} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\chi \delta} + 2 \partial_{\delta} \partial^{\delta} \partial^{\beta} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\chi}_{\chi} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi} \tau (\Delta + \mathcal{K})^{\alpha \beta} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi} \tau (\Delta + \mathcal{K})^{\beta \alpha} + 2 \eta^{\alpha \beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi} \tau (\Delta + \mathcal{K})^{\chi \delta} = 0$	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} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\alpha \chi} + 2 \eta^{\alpha \beta} \partial_{\epsilon} \partial^{\delta} \partial_{\chi} \partial^{\delta} \tau (\Delta + \mathcal{K})^{\chi} \partial^{\alpha} \tau \partial^{\alpha} \tau $	

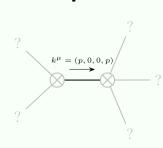
25

Massive spectrum

Total expected gauge generators:

(No particles)

Massless spectrum



Massless particle

Pole residue:	$\left \frac{2}{r_{.}} + \frac{7}{2r_{.}+r_{.}} - \frac{24}{r_{.}+2r_{.}} \right > 0$
Polarisations:	2

Unitarity conditions

 $(r_{3} < 0 \&\& (r_{5} < -\frac{r_{3}}{2} || r_{5} > -2 r_{3})) || (r_{3} > 0 \&\& -2 r_{3} < r_{5} < -\frac{r_{3}}{2})$