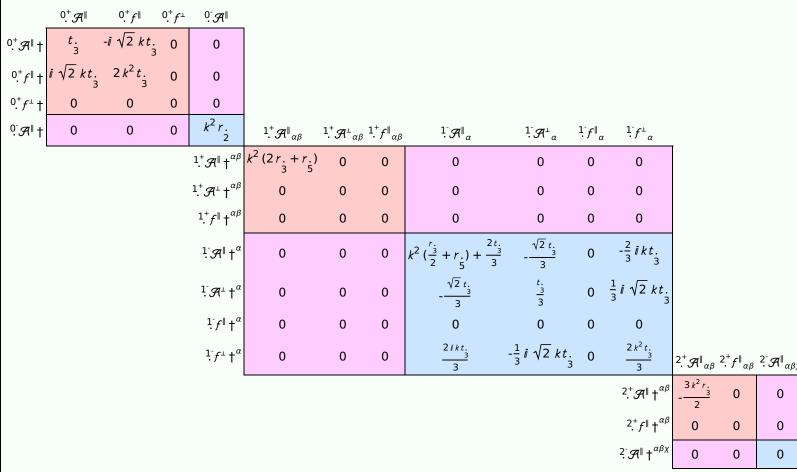
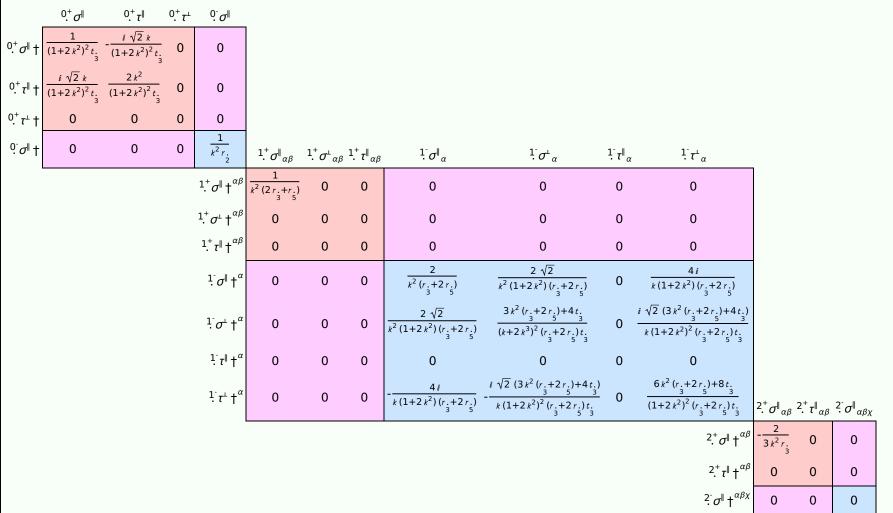
PSALTer results panel

 $S = \iiint \left(\frac{1}{6}\left(-4t_{3}^{2}\mathcal{A}_{\alpha}^{\alpha_{i}}\mathcal{A}_{\beta}^{\theta_{i}}+6\mathcal{A}_{\alpha}^{\alpha_{i}}\mathcal{A}_{\alpha}^{\beta_{i}}+6\mathcal{A}_{\alpha_{i}}^{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}+8t_{3}^{2}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\beta_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\beta_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\beta_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\beta_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\beta_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_{i}}\partial_{\beta_{i}}^{\alpha_{i}}-3r_{3}^{2}\partial_{\alpha_{i}}\mathcal{A}_{\alpha_{i}}^{\theta_$

Wave operator



Saturated propagator



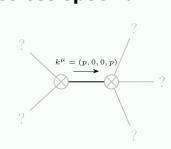
Source constraints

| Spin-parity form | Covariant form | Multiplicities |
|---|---|----------------|
| 0. ⁺ τ [⊥] == 0 | $\partial_{\beta}\partial_{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\beta}=0$ | 1 |
| $-2 i k^{0^+} \sigma^{\parallel} + {}^{0^+} \tau^{\parallel} == 0$ | $\partial_{\beta}\partial_{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\beta} == \partial_{\beta}\partial^{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\alpha}_{\alpha}$ | 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 |
| $1 \tau^{\parallel \alpha} == 0$ | $\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\beta\chi}==\partial_{\chi}\partial^{\chi}\partial_{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\beta\alpha}$ | 3 |
| $1^+_{\tau} ^{\alpha\beta} == 0$ | $\partial_{\chi}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\beta\chi} + \partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\chi\alpha} + \partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\beta} = \partial_{\chi}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\chi\beta} + \partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\chi} + \partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\beta\alpha}$ | 3 |
| $1^+_{\cdot}\sigma^{\perp}{}^{\alpha\beta} == 0$ | $\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\chi\beta\delta} + \partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\chi\alpha\beta} == \partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\chi\alpha\delta}$ | 3 |
| $2^{-}\sigma^{\parallel^{\alpha\beta\chi}}=0$ | $3 \partial_{\epsilon} \partial_{\delta} \partial^{\chi} \partial^{\alpha} \sigma^{\delta \beta \epsilon} + 3 \partial_{\epsilon} \partial^{\epsilon} \partial^{\chi} \partial^{\alpha} \sigma^{\delta \beta}_{ \delta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\beta} \sigma^{\alpha \chi \delta} + 4 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\beta} \sigma^{\chi \alpha \delta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\beta} \sigma^{\delta \alpha \chi} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\chi} \sigma^{\delta \alpha \delta} +$ | 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}^{\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} = $ | |
| | $3\partial_{\epsilon}\partial_{\delta}\partial^{\chi}\partial^{\beta}\sigma^{\delta\alpha\epsilon} + 3\partial_{\epsilon}\partial^{\epsilon}\partial^{\chi}\partial^{\beta}\sigma^{\delta\alpha}_{\delta} + 2\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\alpha}\sigma^{\beta\chi\delta} + 4\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\alpha}\sigma^{\chi\beta\delta} + 2\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\alpha}\sigma^{\delta\beta\chi} + 2\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\chi}\sigma^{\alpha\beta\delta} +$ | |
| | $2\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\beta\alpha\chi} + 4\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\chi\alpha\beta} + 3\eta^{\alpha\chi}\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial^{\beta}\sigma^{\delta}_{\delta}^{\epsilon} + 3\eta^{\beta\chi}\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial_{\delta}\sigma^{\delta\alpha\epsilon} + 3\eta^{\alpha\chi}\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial^{\epsilon}\sigma^{\delta\beta}_{\delta}$ | |
| $2^+_{\tau} ^{\alpha\beta} == 0$ | $4 \partial_{\delta} \partial_{\chi} \partial^{\beta} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\chi \delta} + 2 \partial_{\delta} \partial^{\delta} \partial^{\beta} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\chi}_{\chi} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi} \tau (\Delta + \mathcal{K})^{\alpha \beta} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi} \tau (\Delta + \mathcal{K})^{\beta \alpha} + 2 \eta^{\alpha \beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi} \tau (\Delta + \mathcal{K})^{\chi \delta} = 0$ | 5 |
| | $3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\beta\chi}+3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau(\Delta+\mathcal{K})^{\chi\beta}+3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\beta}\tau(\Delta+\mathcal{K})^{\alpha\chi}+3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\beta}\tau(\Delta+\mathcal{K})^{\chi\alpha}+2\eta^{\alpha\beta}\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\tau(\Delta+\mathcal{K})^{\chi}_{\chi}$ | |
| Total expected gauge generators: | | 24 |

Massive spectrum

(No particles)

Massless spectrum



Massless particle

Pole residue: $\left| -\frac{26}{r_3} + \frac{39}{2r_3 + r_5} - \frac{216}{r_3 + 2r_5} > 0 \right|$ Polarisations: 2

Unitarity conditions

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