$\mathcal{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} - 6 \ r_{3} \ \partial_{\beta}\mathcal{A}_{i\ \theta}^{\ \theta} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} - 6 \ r_{3} \ \partial_{\alpha}\mathcal{R}^{\alpha\beta i} \ \partial_{\theta}\mathcal{A}_{i\ \beta}^{\ \theta} + 12 \ r_{3} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{A}_{i\ \beta}^{\ \theta} + 12 \ r_{3} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{A}_{i\ \beta}^{\ \theta} + 12 \ r_{4} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}^{\alpha\beta}_{\ \alpha} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^{i}\mathcal{R}_{i\ \alpha}^{\ \theta} \partial_{\theta}\mathcal{R}_{i\ \beta}^{\ \theta} + 12 \ r_{5} \ \partial^$ $8r_{2}\partial_{\beta}\mathcal{A}_{\alpha\iota\theta}\partial^{\theta}\mathcal{A}^{\alpha\beta\iota} - 4r_{2}\partial_{\beta}\mathcal{A}_{\alpha\theta\iota}\partial^{\theta}\mathcal{A}^{\alpha\beta\iota} + 4r_{2}\partial_{\beta}\mathcal{A}_{\iota\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta\iota} - 24r_{3}\partial_{\beta}\mathcal{A}_{\iota\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta\iota} - 4r_{2}\partial_{\beta}\mathcal{A}_{\alpha\theta\iota}\partial^{\alpha}\mathcal{A}^{\alpha\beta\iota} - 4r_{2}\partial_{\beta}\mathcal{A}_{\alpha\theta\iota}\partial^{\alpha}\mathcal{A}^{\alpha}\partial^{\alpha}\mathcal{A}^{\alpha} - 4r_{2}\partial_{\beta}\mathcal{A}^{\alpha}\partial^{\alpha}\mathcal{A}^{\alpha}\partial^{\alpha}\mathcal{A}^{\alpha} - 4r_{2}\partial_{\beta}\mathcal{A}^{\alpha}\partial^{\alpha}\mathcal{A}^{\alpha}\partial^{\alpha}\mathcal{A}^{\alpha}\partial^{\alpha}\mathcal{A}^{\alpha} - 4r_{2}\partial_{\beta}\mathcal{A}^{\alpha}\partial^{\alpha}\mathcal$ $2r_{2}\partial_{i}\mathcal{A}_{\alpha\beta\theta}\partial^{\theta}\mathcal{A}^{\alpha\beta\prime} + 2r_{2}\partial_{\theta}\mathcal{A}_{\alpha\beta\prime}\partial^{\theta}\mathcal{A}^{\alpha\beta\prime} - 4r_{2}\partial_{\theta}\mathcal{A}_{\alpha\prime\beta}\partial^{\theta}\mathcal{A}^{\alpha\beta\prime} + 4t_{2}\mathcal{A}_{\prime\theta\alpha}\partial^{\theta}f^{\alpha\prime} +$ $2\,t_{.\,2}\,\partial_{\alpha}f_{\,_{!\,\theta}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\alpha}f_{\,_{\theta_{!}}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{_{!}}f_{\,_{\alpha\theta}}\,\partial^{\theta}f^{\alpha_{!}}\,+\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{\alpha_{!}}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f_{\,_{|\alpha}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f^{\alpha_{!}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f^{\alpha_{!}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f^{\alpha_{!}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f^{\alpha_{!}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f^{\alpha_{!}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f^{\alpha_{!}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f^{\alpha_{!}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f^{\alpha_{!}}\,\partial^{\theta}f^{\alpha_{!}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f^{\alpha_{!}}\,\partial^{\theta}f^{\alpha_{!}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f^{\alpha_{!}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f^{\alpha_{!}}\,\partial^{\theta}f^{\alpha_{!}}\,-\,t_{.\,\,2}\,\partial_{\theta}f^{\alpha_{!}}\,\partial^{\theta}f^{\alpha_{!}}\,\partial^{\theta}f^{\alpha_{!}}\,\partial^{\theta}f^{\alpha_{!}}\,\partial^{\theta}f^{\alpha_{!}}\,\partial^{\theta}f^{\alpha_{!}}\,\partial^{\theta}f^{\alpha_{!}}\,\partial^{\theta}f^{\alpha_$ $4t_{2}\,\mathcal{A}_{\alpha\theta\iota}\,(\,\mathcal{A}^{\alpha\iota\theta}+\partial^{\theta}f^{\alpha\iota})+2t_{2}\,\mathcal{A}_{\alpha\iota\theta}\,(\,\mathcal{A}^{\alpha\iota\theta}+2\,\partial^{\theta}f^{\alpha\iota})))[t,\,x,\,y,\,z]\,dz\,dy\,dx\,dt$ Wave operator $0^{+}\mathcal{F}^{\parallel} \ 0^{+}f^{\parallel} \ 0^{+}f^{\perp}$ $^{0}\mathcal{F}^{\parallel}$ ${}^{0,^{+}}\mathcal{F}^{\parallel}$ † $0.^{+}f^{\parallel}$ † 0 0 $0.^{+}f^{\perp}$ † $0 k^2 r_1 + t_2$ ⁰⁻Æ[∥]† 0 $1^{+}\mathcal{A}\|_{\alpha\beta} \qquad 1^{+}\mathcal{A}^{\perp}{}_{\alpha\beta} \qquad 1^{+}f\|_{\alpha\beta} \qquad 1\mathcal{A}\|_{\alpha} \ 1\mathcal{A}^{\perp}{}_{\alpha} \ 1f\|_{\alpha} \qquad 1f^{\perp}{}_{\alpha}$ $1^{+}\mathcal{A}^{\parallel} + \alpha^{\beta} = \frac{1}{6} (9 k^{2} r_{1} + 4 t_{1}) \frac{\sqrt{2} t_{2}}{3} = \frac{1}{3} i \sqrt{2} k t_{1}$ $\frac{1}{3} + \mathcal{A}^{\perp} + \frac{\alpha \beta}{3} \qquad \frac{\sqrt{2} t_{\cdot}}{3} \qquad \frac{t_{\cdot}}{3} \qquad \frac{i k t_{\cdot}}{3} \\ \frac{1}{3} + f^{\parallel} + \frac{\alpha \beta}{3} \qquad -\frac{1}{3} \bar{i} \sqrt{2} k t_{\cdot} \qquad -\frac{1}{3} \bar{i} k t_{\cdot} \qquad \frac{k^{2} t_{\cdot}}{3} \\ \frac{1}{3} + \frac{1}{3$

0

0

0

0

0

0

0

0

0

 $^{2.^{+}}\mathcal{A}^{\parallel}$ lphaeta

 $2^+f^{\parallel} \uparrow^{\alpha\beta}$

 $2 \mathcal{A}^{\parallel} + \alpha \beta \chi$

Saturated propagator $0.^{+}\sigma^{\parallel} 0.^{+}\tau^{\parallel} 0.^{+}\tau^{\perp}$ 0.0 $0.^{+}\sigma^{\parallel}$ †

0 0

 $0.^{+} \tau^{\parallel} +$ $0.^{+}\tau^{\perp}$ †

 $0^{-}\sigma^{\parallel}$ †

 $\frac{1}{2}\mathcal{A}^{\parallel} +^{\alpha}$

 $\frac{1}{2}\mathcal{H}^{\perp} \uparrow^{\alpha}$

0

0

 $1^{+}_{.}\tau^{\parallel} + ^{\alpha\beta} \quad \frac{2 \, i \, \sqrt{2}}{3 \, k \, r_{.} + 3 \, k^{3} \, r_{.}}{3 \, k \, (1 + k^{2})^{2} \, r_{.} \, t_{.}} \quad \frac{9 \, k^{2} \, r_{.} + 4 \, t_{.}}{3 \, (1 + k^{2})^{2} \, r_{.} \, t_{.}}}{3 \, (1 + k^{2})^{2} \, r_{.} \, t_{.}}$

0

0

0

0

0

0

0

0

PSALTer results panel

Spin-parity form

 $0^+_{\cdot} \tau^{\perp} == 0$

 $0.^{+}\tau^{\parallel} == 0$

 $0.^+\sigma^{\parallel}=0$

Source constraints

 $\frac{1}{2}\sigma^{\parallel} + \alpha$

 $\frac{1}{2}\sigma^{\perp} + \alpha$

 $1^{-}\tau^{\parallel}$ $+^{\alpha}$

 $1^{-}\tau^{\perp} + \alpha$

Covariant form

 $\partial_{\beta}\sigma^{\alpha}_{\alpha}^{\beta} == 0$

0

0

0

 $\partial_{\beta}\partial_{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{lphaeta}$ == 0

 $\partial_{\beta}\partial_{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\beta} = \partial_{\beta}\partial^{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\alpha}$

 $\partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\beta}+2\,\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\chi\beta\delta}+2\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\chi\alpha\beta}==$

 $3\ \eta^{\beta\chi}\ \partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial^{\alpha}\sigma^{\delta}_{\ \ \delta}^{\ \ \epsilon} + 3\ \eta^{\alpha\chi}\ \partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial_{\delta}\sigma^{\delta\beta\epsilon} + 3\ \eta^{\beta\chi}\ \partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial^{\epsilon}\sigma^{\delta\alpha}_{\ \ \delta} =$

 $2\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\alpha}\sigma^{\delta\beta\chi} + 2\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\chi}\sigma^{\alpha\beta\delta} + 2\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\beta\alpha\chi} + 4\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\chi\alpha\beta} +$

 $3\ \eta^{\alpha\chi}\ \partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial^{\beta}\sigma^{\delta}_{\ \delta}{}^{\epsilon} + 3\ \eta^{\beta\chi}\ \partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial_{\delta}\sigma^{\delta\alpha\epsilon} + 3\ \eta^{\alpha\chi}\ \partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial^{\epsilon}\sigma^{\delta\beta}_{\ \delta}$

 $3\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau\,(\Delta+\mathcal{K})^{\beta\chi} + 3\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau\,(\Delta+\mathcal{K})^{\chi\beta} + 3\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\beta}\tau\,(\Delta+\mathcal{K})^{\alpha\chi} + \\$

 $3\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\beta\alpha}+2\,\eta^{\alpha\beta}\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial_{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\chi\delta}=$

 $3\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\beta}\tau\,(\Delta+\mathcal{K})^{\chi\alpha} + 2\,\,\eta^{\alpha\beta}\,\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\tau\,(\Delta+\mathcal{K})^{\chi}_{\chi}$

 $\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau\left(\Delta\!+\!\mathcal{K}\right)^{\beta\chi}==\partial_{\chi}\partial^{\chi}\partial_{\beta}\tau\left(\Delta\!+\!\mathcal{K}\right)^{\alpha\beta}$ $\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\beta\chi}==\partial_{\chi}\partial^{\chi}\partial_{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\beta\alpha}$

 $2^{+}\sigma^{\parallel} + \frac{2}{3k^{2}r}$ $\dot{z}\sigma^{\parallel} + \alpha^{\alpha\beta\chi}$

0

0

0

0

0

0

0

0

0

0

0

0

0

 $2^{+}\mathcal{H}_{\alpha\beta}^{\parallel}^{2^{+}}f_{\alpha\beta}^{\parallel}^{2^{-}}\mathcal{H}_{\alpha\beta\chi}^{\parallel}$

0

0

0

 $2^+_{\cdot}\sigma^{\parallel}{}_{\alpha\beta}$ $2^+_{\cdot}\tau^{\parallel}{}_{\alpha\beta}$ $2^-_{\cdot}\sigma^{\parallel}{}_{\alpha\beta\chi}$ 0 0 Multiplicities

1

3

3

28

$1 \cdot \tau^{\perp \alpha} == 0$ $1 \cdot \tau^{\parallel \alpha} == 0$ $\partial_{\chi}\partial_{\beta}\sigma^{\beta\alpha\chi}==0$ $\frac{1}{2}\sigma^{\perp}^{\alpha} == 0$

 $\partial_{\delta}\partial^{\alpha}\sigma_{\chi}^{\chi\delta} + \partial_{\delta}\partial^{\delta}\sigma_{\chi}^{\chi\alpha} == \partial_{\delta}\partial_{\chi}\sigma_{\chi}^{\chi\alpha\delta}$ $1 \sigma^{\alpha} = 0$ $i k \, \stackrel{1^+}{\cdot} \sigma^{\perp}{}^{\alpha\beta} + \stackrel{1^+}{\cdot} \tau^{\parallel}{}^{\alpha\beta} == 0 \, \left| \partial_{\chi} \partial^{\alpha} \tau \left(\triangle + \mathcal{K} \right)^{\beta\chi} + \partial_{\chi} \partial^{\beta} \tau \left(\triangle + \mathcal{K} \right)^{\chi\alpha} + \right|$

 $\partial_{\chi}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\chi\beta}+\partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\chi}+\partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\beta\alpha}+2\,\partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\chi\alpha\delta}$ $2^{-}\sigma^{\parallel^{\alpha\beta\chi}}=0$ $3\,\partial_{\epsilon}\partial_{\delta}\partial^{\chi}\partial^{\alpha}\sigma^{\delta\beta\epsilon} + 3\,\partial_{\epsilon}\partial^{\epsilon}\partial^{\chi}\partial^{\alpha}\sigma^{\delta\beta}_{\delta} + 2\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\beta}\sigma^{\alpha\chi\delta} + 4\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\beta}\sigma^{\chi\alpha\delta} +$ $2\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\beta}\sigma^{\delta\alpha\chi} + 2\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\chi}\sigma^{\beta\alpha\delta} + 4\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\chi}\sigma^{\delta\alpha\beta} + 2\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\alpha\beta\chi} +$

 $3\,\partial_\epsilon\partial_\delta\partial^\chi\partial^\beta\sigma^{\delta\alpha\epsilon} + 3\,\partial_\epsilon\partial^\epsilon\partial^\chi\partial^\beta\sigma^{\delta\alpha}_{\delta} + 2\,\partial_\epsilon\partial^\epsilon\partial_\delta\partial^\alpha\sigma^{\beta\chi\delta} + 4\,\partial_\epsilon\partial^\epsilon\partial_\delta\partial^\alpha\sigma^{\chi\beta\delta} +$ $2^+_{i}\tau^{\parallel^{\alpha\beta}}=0$ $4\,\partial_{\delta}\partial_{\chi}\partial^{\beta}\partial^{\alpha}\tau\,(\Delta+\mathcal{K})^{\chi\delta}+2\,\partial_{\delta}\partial^{\delta}\partial^{\beta}\partial^{\alpha}\tau\,(\Delta+\mathcal{K})^{\chi}_{\chi}+3\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}\tau\,(\Delta+\mathcal{K})^{\alpha\beta}+$

Massive spectrum

Total expected gauge generators:

Massive particle Pole residue: Square mass: $\begin{vmatrix} \frac{t}{2} \\ -\frac{2}{r} \\ \frac{r}{2} \end{vmatrix} > 0$ Spin: Parity: Odd

Unitarity conditions $r_{2} < 0 \&\& t_{2} > 0$

Massless spectrum (No particles)