PSALTer results panel $2t_{1}\partial_{i}f^{\theta}_{\theta}\partial^{i}f^{\alpha}_{\alpha}-24r_{1}\partial_{\alpha}\mathcal{R}^{\alpha\beta_{i}}\partial_{\theta}\mathcal{R}^{\theta}_{\beta}+48r_{1}\partial^{i}\mathcal{R}^{\alpha\beta}_{\alpha}\partial_{\theta}\mathcal{R}^{\theta}_{\alpha}-2t_{1}\partial_{i}f^{\alpha_{i}}\partial_{\theta}f^{\theta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\theta}_{\beta}+48r_{1}\partial^{i}\mathcal{R}^{\alpha\beta}_{\alpha}\partial_{\theta}\mathcal{R}^{\theta}_{\beta}-2t_{1}\partial_{i}f^{\alpha_{i}}\partial_{\theta}f^{\theta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\theta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\theta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\theta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\theta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\theta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\theta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\theta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\beta}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\alpha}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\beta}_{\alpha}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\alpha}_{\alpha}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\alpha}_{\alpha}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\alpha}_{\alpha}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\alpha}_{\alpha}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\alpha}_{\alpha}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\alpha}_{\alpha}+4t_{1}\partial^{i}f^{\alpha}_{\alpha}\partial_{\theta}f^{\alpha}_{\phantom{\alpha$ $8r_{.2}\partial_{\beta}\mathcal{A}_{\alpha_{i}\theta}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.2}\partial_{\beta}\mathcal{A}_{\alpha\theta_{i}}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}+4r_{.2}\partial_{\beta}\mathcal{R}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-24r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_{i}\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta_{i}}-4r_{.3}\partial_{\beta}\mathcal{A}_{_$ $2r_{.}\frac{\partial_{i}\mathcal{R}_{\alpha\beta\theta}}{\partial^{i}\mathcal{R}^{\alpha\beta\iota}} + 2r_{.}\frac{\partial_{\theta}\mathcal{R}_{\alpha\beta\iota}}{\partial^{\theta}\mathcal{R}^{\alpha\beta\iota}} - 4r_{.}\frac{\partial_{\theta}\mathcal{R}_{\alpha\iota\beta}}{\partial^{\theta}\mathcal{R}^{\alpha\beta\iota}} + 4t_{.}\frac{\mathcal{R}_{\iota\theta\alpha}}{\partial^{\theta}f^{\alpha\iota}} + 4t_{.}\frac{\mathcal{R}_{\iota\theta\alpha}}{\partial^{\theta}f^{\alpha\iota}} - 4r_{.}\frac{\partial_{\theta}\mathcal{R}_{\alpha\iota\beta}}{\partial^{\theta}f^{\alpha\iota}} + 4t_{.}\frac{\mathcal{R}_{\iota\theta\alpha}}{\partial^{\theta}f^{\alpha\iota}} + 4t_{.}\frac{\mathcal{R}_{\iota\theta\alpha}}{\partial^{\theta}f^{\alpha\iota}} + 4t_{.}\frac{\mathcal{R}_{\iota\theta\alpha}}{\partial^{\theta}f^{\alpha\iota}} - 4r_{.}\frac{\partial_{\theta}\mathcal{R}_{\alpha\iota\beta}}{\partial^{\theta}f^{\alpha\iota}} + 4t_{.}\frac{\mathcal{R}_{\iota\theta\alpha}}{\partial^{\theta}f^{\alpha\iota}} + 4t_{.}\frac{\mathcal{R}$ $4t_1\partial_{\alpha}f_{,\theta}\partial^{\theta}f^{\alpha i}+2t_2\partial_{\alpha}f_{,\theta}\partial^{\theta}f^{\alpha i}-4t_1\partial_{\alpha}f_{,\theta}\partial^{\theta}f^{\alpha i}-t_2\partial_{\alpha}f_{,\theta}\partial^{\theta}f^{\alpha i}+2t_1\partial_{i}f_{,\alpha\theta}\partial^{\theta}f^{\alpha i}-t_2\partial_{\alpha}f_{,\theta}\partial^{\theta}f^{\alpha i}+2t_1\partial_{\alpha}f_{,\theta}\partial^{\theta}f^{\alpha i}-t_2\partial_{\alpha}f_{,\theta}\partial^{\theta}f^{\alpha i}+2t_1\partial_{\alpha}f_{,\theta}\partial^{\theta}f^{\alpha i}-t_2\partial_{\alpha}f_{,\theta}\partial^{\theta}f^{\alpha i}+2t_1\partial_{\alpha}f_{,\theta}\partial^{\theta}f^{\alpha i}-t_2\partial_{\alpha}f_{,\theta}\partial^{\theta}f^{\alpha i}+2t_1\partial_{\alpha}f_{,\theta}\partial^{\theta}f^{\alpha i}-t_2\partial_{\alpha}f_{,\theta}\partial^{\theta}f^{\alpha i}-t_2\partial_{\alpha}f^{\alpha i}-t_2\partial_{\alpha}f_{,\theta}\partial^{\theta}f^{\alpha i}-t_2\partial_{\alpha}f_{,\theta}\partial^{\theta}f^{\alpha i}-t_2\partial_{\alpha}f_{,\theta}\partial^{\theta}f^{\alpha i}-t_2\partial_{\alpha}f^{\alpha i}-t_2\partial_{\alpha}f^{\alpha$ $t_{2} \partial_{i} f_{\alpha \theta} \partial^{\theta} f^{\alpha i} + 4 t_{1} \partial_{\theta} f_{\alpha i} \partial^{\theta} f^{\alpha i} + t_{2} \partial_{\theta} f_{\alpha i} \partial^{\theta} f^{\alpha i} + 2 t_{1} \partial_{\theta} f_{i \alpha} \partial^{\theta} f^{\alpha i} - t_{2} \partial_{\theta} f_{i \alpha} \partial^{\theta} f^{\alpha i} +$ $2\,(t_{1}\,+\,t_{.})\,\,\mathcal{A}_{\alpha_{i}\theta}\,\,(\,\mathcal{A}^{\alpha_{i}\theta}\,+\,2\,\partial^{\theta}f^{\alpha_{i}})\,+\,2\,\,\mathcal{A}_{\alpha_{\theta_{i}}}\,\,((t_{1}\,-\,2\,t_{.})\,\,\mathcal{A}^{\alpha_{i}\theta}\,+\,2\,(2\,t_{.}\,-\,t_{.})\,\partial^{\theta}f^{\alpha_{i}})))[t,\,x,\,y,\,z]\,dz\,dy\,dx\,dt$ Wave operator $0.^{+}\mathcal{H}^{\parallel}$ $0.^{+}f^{\parallel}$ $0.^{+}f^{\perp}$

Saturated propagator

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

 $0.^{+}\tau^{\parallel}$ † 0.⁺τ⁺ †

⁰. σ^{||} †

0.+ *f* ¹ † ^{0.} \mathcal{A}^{\parallel} †

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

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

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

 $^{1.^{+}}\sigma^{\scriptscriptstyle \perp}{}_{lphaeta}$

 $1_{1}^{+}\tau^{\parallel} + \tau^{\alpha\beta} = \frac{i\sqrt{2}k(t, -2t_{\perp})}{3(1+k^{2})t_{\perp}t_{\perp}} - \frac{ik(t_{\perp}+4t_{\perp})}{3(1+k^{2})^{2}t_{\perp}t_{\perp}} = \frac{k^{2}(t_{\perp}+4t_{\perp})}{3(1+k^{2})^{2}t_{\perp}t_{\perp}}$

0

 $\sqrt{2} (t_1-2t_1)$ i $\sqrt{2} k (t_1-2t_1)$

 $\frac{i k (t_1 - 2 t_1)}{3 \sqrt{2}} \quad -\frac{1}{3} i k (t_1 + t_2) \frac{1}{3} k^2 (t_1 + t_2)$

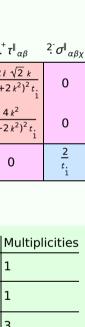
 $1.^+ \tau^{\parallel}_{\alpha\beta}$

 $-\frac{1}{3}ikt_{1} - \frac{1}{3}i\sqrt{2}kt_{1} = 0$

 $\frac{6\sqrt{2}}{(3+4k^2)^2t_1} \quad \frac{12}{(3+4k^2)^2t_1} \quad 0 \quad \frac{12i\sqrt{2}k}{(3+4k^2)^2t_1}$

0

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



$0^+_{\cdot} \tau^{\parallel} == 0$ $\partial_{\beta}\partial_{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\beta} == \partial_{\beta}\partial^{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\alpha}_{\alpha}$ $2ik \cdot 1 \sigma^{||^{\alpha}} + 1 \tau^{\perp^{\alpha}} == 0$

Spin-parity form

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

 $1 \cdot \tau^{\parallel^{\alpha}} == 0$

 $\partial_{\chi}\partial^{\alpha}\sigma^{\beta}_{\beta}^{\chi} + \partial_{\chi}\partial^{\chi}\sigma^{\beta\alpha}_{\beta} == 0$ $1 \sigma^{\parallel \alpha} = 1 \sigma^{\perp \alpha}$ $\partial_{\chi}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\beta\chi}+\partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\chi\alpha}+\partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\beta}+2\,\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\chi\beta\delta}+2\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\chi\alpha\beta}=$ $i k 1^{+}_{\cdot} \sigma^{\perp}^{\alpha\beta} + 1^{+}_{\cdot} \tau^{\parallel}^{\alpha\beta} == 0$ $\partial_{\chi}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\chi\beta}+\partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\chi}+\partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\beta\alpha}+2\,\partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\chi\alpha\delta}$ $-2 \, i \, k \, \stackrel{2^{+}}{\sim} \sigma^{\parallel}{}^{\alpha\beta} + \stackrel{2^{+}}{\sim} \tau^{\parallel}{}^{\alpha\beta} = 0 \, \left| -i \, (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})^{\beta \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})^{\beta \chi} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \partial^{\alpha} \tau \, (\Delta + \mathcal{K})^{\gamma \beta} - 3 \, \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \partial^{\alpha} \partial^{\alpha} \partial^{\alpha} \partial^{\alpha} \partial^{\alpha} \partial^{\alpha} \partial^{$ $3\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\beta}\tau\,(\Delta+\mathcal{K})^{\alpha\chi}-3\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\beta}\tau\,(\Delta+\mathcal{K})^{\chi\alpha}+3\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}\tau\,(\Delta+\mathcal{K})^{\alpha\beta}+$ $3\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}\tau\,(\Delta+\mathcal{K})^{\beta\alpha}+4\,\dot{\imath}\,\,k^{\chi}\,\,\partial_{\epsilon}\partial_{\chi}\partial^{\beta}\partial^{\alpha}\sigma^{\delta}_{\delta}{}^{\epsilon}-6\,\dot{\imath}\,\,k^{\chi}\,\,\partial_{\epsilon}\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\delta\beta\epsilon}-6\,\dot{\imath}\,\,k^{\chi}\,\,\partial_{\epsilon}\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\delta\beta\epsilon}$

Total expected gauge generators:

Source constraints Covariant form $\partial_{\beta}\partial_{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\beta} == 0$

0

 $\overline{(3+4k^2)^2t_1}$ $\overline{(3+4k^2)^2t_1}$

 $\frac{12ik}{(3+4k^2)^2t_1} - \frac{12i\sqrt{2}k}{(3+4k^2)^2t_1} = 0 \quad \frac{24k^2}{(3+4k^2)^2t_1} \quad 2^+ \sigma^{\parallel}_{\alpha\beta}$

3

Massive spectrum

Massive particle

Pole residue: $\left| -\frac{1}{r_{\cdot 2}} > 0 \right|$

Square mass: Spin: Odd Parity:

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

(No particles) **Unitarity conditions**

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

 $6 \, i \, \, k^{\chi} \, \, \partial_{\epsilon} \partial_{\delta} \partial_{\chi} \partial^{\beta} \sigma^{\delta \alpha \epsilon} + 6 \, i \, \, k^{\chi} \, \, \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi} \sigma^{\alpha \beta \delta} + 6 \, i \, \, k^{\chi} \, \, \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi} \sigma^{\beta \alpha \delta} + \\$

 $2\ \eta^{\alpha\beta}\ \partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial_{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\chi\delta}-2\ \eta^{\alpha\beta}\ \partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\tau\left(\Delta+\mathcal{K}\right)^{\chi}_{\ \chi}-4\ \emph{i}\ \eta^{\alpha\beta}\ \emph{k}^{\chi}\ \partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial_{\chi}\sigma^{\delta}_{\ \delta}{}^{\epsilon}\right)==0$

3

3

