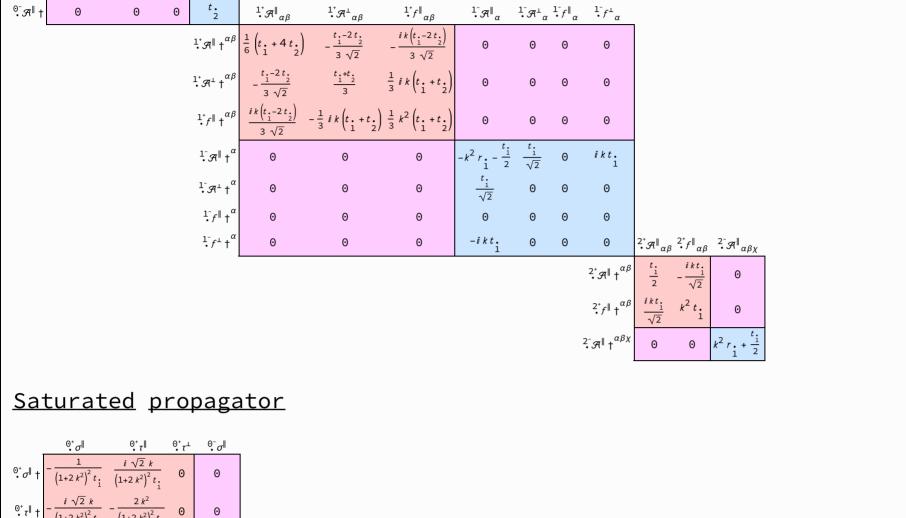
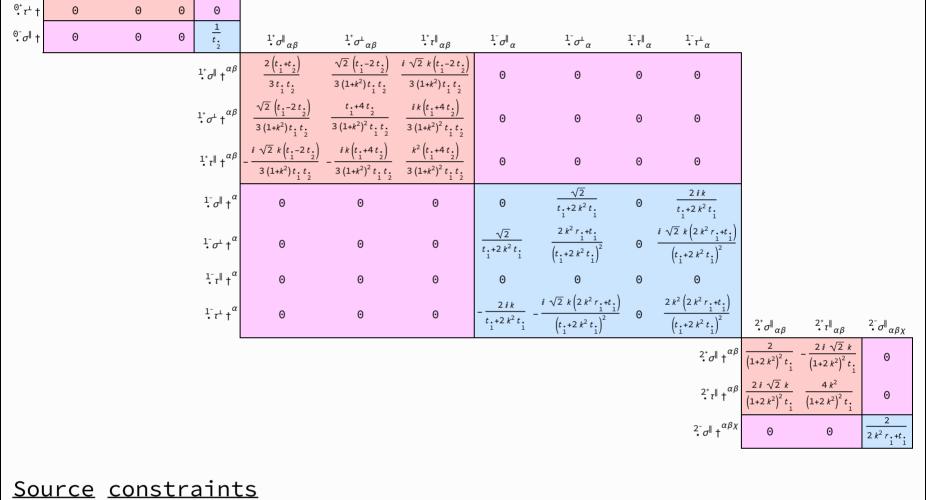
### $\iiint \int \left(\frac{1}{6} \left(6\,t_{1}\,\mathcal{A}^{\alpha\,\prime}_{\phantom{\alpha}\alpha}\,\mathcal{A}^{\phantom{\beta}\beta}_{\phantom{\beta}\theta} + 6\,\mathcal{A}^{\alpha\beta\chi}\,\,\sigma_{\alpha\beta\chi} + 6\,\,f^{\alpha\beta}_{\phantom{\alpha}\alpha}\,\,\tau\,(\Delta + \mathcal{K})_{\alpha\beta} - 12\,t_{1}\,\mathcal{A}^{\phantom{\beta}\theta}_{\phantom{\alpha}\theta}\,\,\partial_{i}f^{\alpha\,\prime}_{\phantom{\alpha}} - 12\,r_{1}\,\partial_{\beta}\mathcal{A}^{\phantom{\beta}\theta}_{\phantom{\beta}\theta}\,\partial^{\prime}\mathcal{A}^{\alpha\beta}_{\phantom{\alpha}\alpha} + 12\,r_{1}\,\partial_{i}\mathcal{A}^{\phantom{\beta}\theta}_{\phantom{\beta}\theta}\,\partial^{\prime}\mathcal{A}^{\alpha\beta}_{\phantom{\alpha}\alpha} + 12\,t_{1}\,\mathcal{A}^{\phantom{\beta}\theta}_{\phantom{\beta}\theta}\,\partial^{\prime}f^{\alpha}_{\phantom{\alpha}\alpha} - 6\,t_{1}\,\partial_{i}f^{\theta}_{\phantom{\beta}\theta}\,\partial^{\prime}f^{\alpha}_{\phantom{\alpha}\alpha} + 12\,r_{2}\,r_{2}\,\partial_{\beta}\mathcal{A}^{\phantom{\beta}\theta}_{\phantom{\beta}\theta}\,\partial^{\prime}\mathcal{A}^{\alpha\beta}_{\phantom{\beta}\alpha} + 12\,r_{2}\,r_{2}\,\partial_{\beta}\mathcal{A}^{\phantom{\beta}\theta}_{\phantom{\beta}\theta}\,\partial^{\prime}\mathcal{A}^{\alpha\beta}_{\phantom{\alpha}\alpha} + 12\,r_{2}\,r_{2}\,\partial_{\beta}\mathcal{A}^{\phantom{\beta}\theta}_{\phantom{\beta}\theta}\,\partial^{\prime}\mathcal{A}^{\alpha\beta}_{\phantom{\alpha}\alpha} + 12\,r_{2}\,r_{2}\,\partial_{\beta}\mathcal{A}^{\phantom{\beta}\theta}_{\phantom{\beta}\theta}\,\partial^{\prime}\mathcal{A}^{\alpha\beta}_{\phantom{\alpha}\alpha} + 12\,r_{2}\,r_{2}\,\partial_{\beta}\mathcal{A}^{\phantom{\beta}\theta}_{\phantom{\beta}\theta}\,\partial^{\prime}\mathcal{A}^{\phantom{\beta}\alpha}_{\phantom{\alpha}\alpha} + 12\,r_{2}\,r_{2}\,\partial_{\beta}\mathcal{A}^{\phantom{\beta}\alpha}_{\phantom{\alpha}\alpha} + 12\,r_{2}\,r_{2}\,\partial_{\beta}\mathcal{A}^{$ $12\,r.\,\partial_{\alpha}\mathcal{R}^{\alpha\beta\,\prime}\,\partial_{\theta}\mathcal{R}_{\beta\,\prime}^{\ \theta\,\prime}\,-24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\alpha\beta}\,\partial_{\theta}\mathcal{R}_{\beta\,\prime}^{\ \theta\,\prime}\,-12\,r.\,\partial_{\alpha}\mathcal{R}^{\alpha\beta\,\prime}\,\partial_{\theta}\mathcal{R}_{\,\prime}^{\ \theta\,}\,+24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\alpha\beta}\,\partial_{\theta}\mathcal{R}_{\,\prime}^{\ \theta\,}\,-6\,t.\,\partial_{1}^{\prime}f^{\alpha\prime}\,\partial_{\theta}f_{\alpha}^{\ \theta\,}\,+24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\alpha\beta}\,\partial_{\theta}\mathcal{R}_{\,\beta}^{\ \theta\,\prime}\,-6\,t.\,\partial_{1}^{\prime}f^{\alpha\prime}\,\partial_{\theta}f_{\alpha}^{\ \theta\,\prime}\,+24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\alpha\beta}\,\partial_{\theta}\mathcal{R}_{\,\beta}^{\ \theta\,\prime}\,-6\,t.\,\partial_{1}^{\prime}f^{\alpha\prime}\,\partial_{\theta}f_{\alpha}^{\ \theta\,\prime}\,+24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\alpha\beta}\,\partial_{\theta}\mathcal{R}_{\,\beta}^{\ \theta\,\prime}\,-6\,t.\,\partial_{1}^{\prime}f^{\alpha\prime}\,\partial_{\theta}f_{\alpha}^{\ \theta\,\prime}\,+24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\alpha\beta}\,\partial_{\theta}\mathcal{R}_{\,\beta}^{\ \theta\,\prime}\,-24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\alpha\beta}\,\partial_{\theta}\mathcal{R}_{\,\beta}^{\ \theta\,\prime}\,-24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\alpha\beta}\,\partial_{\theta}\mathcal{R}_{\,\beta}^{\ \theta\,\prime}\,-24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\alpha\beta}\,\partial_{\theta}\mathcal{R}_{\,\beta}^{\ \theta\,\prime}\,-24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\alpha\beta}\,\partial_{\theta}\mathcal{R}_{\,\beta}^{\ \theta\,\prime}\,-24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\alpha\beta}\,\partial_{\theta}\mathcal{R}_{\,\beta}^{\ \theta\,\prime}\,-24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\alpha\beta}\,\partial_{\theta}\mathcal{R}_{\,\beta}^{\ \theta\,\prime}\,-24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\alpha\beta}\,\partial_{\theta}\mathcal{R}_{\,\beta}^{\ \theta\,\prime}\,-24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\alpha\beta}\,\partial_{\theta}\mathcal{R}_{\,\beta}^{\ \theta\,\prime}\,-24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\beta\beta}\,\partial_{\theta}\mathcal{R}_{\,\beta}^{\ \theta\,\prime}\,-24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\ \theta\,\prime}\,-24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\ \theta\,\prime}\,-24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\ \theta\,\prime}\,-24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\ \theta\,\prime}\,-24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\ \theta\,\prime}\,-24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\ \theta\,\prime}\,-24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\ \theta\,\prime}\,-24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\ \theta\,\prime}\,-24\,r.\,\partial_{1}^{\prime}\mathcal{R}_{\alpha}^{\ \theta\,\prime}\,-24\,r.\,$ $12\,t.\,\partial^{\prime}f^{\alpha}_{\phantom{\alpha}\alpha}\,\partial_{\theta}f^{\phantom{\beta}\beta}_{\phantom{\beta}\alpha}-8\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\,i\,\theta}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\,\theta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}-16\,r.\,\partial_{\beta}\mathcal{R}_{\phantom{\beta}\alpha\,\alpha}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}-4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,\theta}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}-4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,\theta}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}-4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}-4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}-4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}-4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}-4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}-4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}_{\alpha\beta\,i}+4\,r.\,\partial_{\beta}\mathcal{R}$ $4r_{1}\partial_{\theta}\mathcal{R}_{\alpha\beta_{1}}\partial^{\theta}\mathcal{R}^{\alpha\beta_{1}}+4r_{1}\partial_{\theta}\mathcal{R}_{\alpha_{1}\beta_{1}}\partial^{\theta}\mathcal{R}^{\alpha\beta_{1}}+4t_{1}\mathcal{R}_{\beta_{1}\alpha_{2}}\partial^{\theta}f^{\alpha_{1}}+4t_{2}\mathcal{R}_{\beta_{1}\alpha_{2}}\partial^{\theta}f^{\alpha_{1}}-4t_{1}\partial_{\alpha}f_{\beta_{1}\beta_{2}}\partial^{\theta}f^{\alpha_{1}}+2t_{2}\partial_{\alpha}f_{\beta_{1}\beta_{2}}\partial^{\theta}f^{\alpha_{1}}-4t_{2}\partial_{\alpha}f_{\beta_{1}\beta_{2}}\partial^{\theta}f^{\alpha_{1}}+2t_{2}\partial_{\alpha}f_{\beta_{1}\beta_{2}}\partial^{\theta}f^{\alpha_{1}}-4t_{2}\partial_{\alpha}f_{\beta_{1}\beta_{2}}\partial^{\theta}f^{\alpha_{1}}+2t_{2}\partial_{\alpha}f_{\beta_{1}\beta_{2}}\partial^{\theta}f^{\alpha_{1}}-4t_{2}\partial_{\alpha}f_{\beta_{1}\beta_{2}}\partial^{\theta}f^{\alpha_{1}}+2t_{2}\partial_{\alpha}f_{\beta_{1}\beta_{2}}\partial^{\theta}f^{\alpha_{1}}-4t_{2}\partial_{\alpha}f_{\beta_{1}\beta_{2}}\partial^{\theta}f^{\alpha_{1}}+2t_{2}\partial_{\alpha}f_{\beta_{1}\beta_{2}}\partial^{\theta}f^{\alpha_{1}}-4t_{2}\partial_{\alpha}f_{\beta_{1}\beta_{2}}\partial^{\theta}f^{\alpha_{1}}+2t_{2}\partial_{\alpha}f_{\beta_{1}\beta_{2}}\partial^{\theta}f^{\alpha_{1}}-4t_{2}\partial_{\alpha}f_{\beta_{1}\beta_{2}}\partial^{\theta}f^{\alpha_{1}}+2t_{2}\partial_{\alpha}f_{\beta_{1}\beta_{2}}\partial^{\theta}f^{\alpha_{1}}-4t_{2}\partial_{\alpha}f_{\beta_{1}\beta_{2}}\partial^{\theta}f^{\alpha_{1}}+2t_{2}\partial_{\alpha}f_{\beta_{1}\beta_{2}}\partial^{\theta}f^{\alpha_{1}}-4t_{2}\partial_{\alpha}f_{\beta_{1}\beta_{2}}\partial^{\theta}f^{\alpha_{1}}+2t_{2}\partial_{\alpha}f_{\beta_{1}\beta_{2}}\partial^{\theta}f^{\alpha_{1}}-4t_{2}\partial_{\alpha}f_{\beta_{1}\beta_{2}}\partial^{\theta}f^{\alpha_{1$ $4 \underbrace{t. \partial_{\alpha} f_{\theta_{i}} \partial^{\theta} f^{\alpha_{i}}}_{1} - \underbrace{t. \partial_{\alpha} f_{\theta_{i}} \partial^{\theta} f^{\alpha_{i}}}_{2} + 2 \underbrace{t. \partial_{i} f_{\alpha \theta}}_{1} \partial^{\theta} f^{\alpha_{i}} - \underbrace{t. \partial_{i} f_{\alpha \theta}}_{2} \partial^{\theta} f^{\alpha_{i}} + 4 \underbrace{t. \partial_{\theta} f_{\alpha_{i}} \partial^{\theta} f^{\alpha_{i}}}_{2} + \underbrace{t. \partial_{\theta} f_{\alpha_{i}} \partial^{\theta} f^{\alpha_{i}}}_{2} + 2 \underbrace{t. \partial_{\theta} f_{\alpha_{i}} \partial^{\theta} f^{\alpha_{i}}}_{2} - \underbrace{t. \partial_{\theta} f_{\alpha_{i}} \partial^{\theta} f^{\alpha_{i}}}_{2} + \underbrace{t. \partial_{\theta} f_{\alpha_{i}} \partial^{\theta} f^{\alpha_{i}}}_{2} + \underbrace{t. \partial_{\theta} f_{\alpha_{i}} \partial^{\theta} f^{\alpha_{i}}}_{2} - \underbrace{t. \partial_{\theta} f_{\alpha_{i}} \partial^{\theta} f^{\alpha_{i}}}_{2} + \underbrace{t. \partial_{\theta} f_{\alpha_{i}} \partial^{\theta} f^{\alpha_{i}}}_{2} - \underbrace{t. \partial_{\theta} f_{\alpha_{i}} \partial^{\theta} f^{\alpha_{i}}}_{2} + \underbrace{t. \partial_{\theta} f_{\alpha_{i}} \partial^{\theta} f^{\alpha_{i}}}_{2} - \underbrace{t. \partial_{\theta} f_{\alpha_{i}} \partial^{\theta} f^{\alpha_{i}}}_{2} + \underbrace{t. \partial_{\theta} f_{\alpha_{i}} \partial^{\theta} f^{\alpha_{i}}}_{2} - \underbrace{t. \partial_{\theta} f_{\alpha_{i}} \partial^{\theta} f^{\alpha_{i}}}_{2} + \underbrace{t. \partial_{\theta} f_{\alpha_{i}} \partial^{\theta} f^{\alpha_{i}}}_{2} - \underbrace{t. \partial_{\theta} f_{\alpha_$ <u>Wave operator</u>

 ${\stackrel{0^+}{\cdot}} f^{\perp} \dagger$ 

 $-i \sqrt{2} kt_1 - 2k^2t_1 = 0$ 

PSALTer results panel

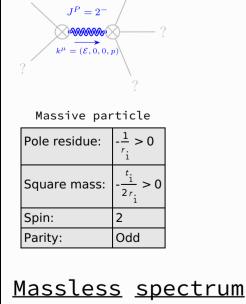




#### Spin-parity form Covariant form

Spin-parity form	Covariant form	Multiplicities
<sup>0+</sup> τ <sup>⊥</sup> == 0	$\partial_{\beta}\partial_{\alpha}\tau \left(\Delta+\mathcal{K}\right)^{\alpha\beta} == 0$	1
$-2 i k \cdot \sigma^{\parallel} + \cdot \tau^{\parallel} == 0$	$\partial_{\beta}\partial_{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\beta} == \partial_{\beta}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\alpha}_{\alpha} + 2\partial_{\chi}\partial^{\chi}\partial_{\beta}\sigma^{\alpha}_{\alpha}^{\beta}$	1
$2 i k \frac{1}{\cdot} \sigma^{\perp}^{\alpha} + \frac{1}{\cdot} \tau^{\perp}^{\alpha} == 0$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\beta\chi} = \partial_{\chi}\partial^{\chi}\partial_{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\beta} + 2\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial_{\beta}\sigma^{\beta\alpha\chi}$	3
1- <sub>\tau</sub>   \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
$i k \frac{1}{\cdot} \sigma^{\perp}^{\alpha\beta} + \frac{1}{\cdot} \tau^{\parallel}^{\alpha\beta} = 0$	$\partial_{\chi}\partial^{\alpha}_{\tau} \left(\Delta + \mathcal{K}\right)^{\beta\chi} + \partial_{\chi}\partial^{\beta}_{\tau} \left(\Delta + \mathcal{K}\right)^{\chi\alpha} + \partial_{\chi}\partial^{\chi}_{\tau} \left(\Delta + \mathcal{K}\right)^{\alpha\beta} + 2 \partial_{\delta}\partial_{\chi}\partial^{\alpha}_{\sigma}^{\chi\beta\delta} + 2 \partial_{\delta}\partial^{\delta}_{\lambda}_{\chi}\sigma^{\chi\alpha\beta} = 0$	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 \stackrel{2^{+}}{\cdot}_{\sigma} \parallel^{\alpha \beta} + \stackrel{2^{+}}{\cdot}_{\tau} \parallel^{\alpha \beta} == 0 \\ -i \left( 4 \partial_{\delta} \partial_{\chi} \partial^{\beta} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \delta} + 2 \partial_{\delta} \partial^{\delta} \partial^{\beta}_{\sigma} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\beta \chi} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} \left( \Delta + \mathcal{K} \right)^{\chi \beta} - 3 \partial_{\delta} \partial^{$		5
	$3\ \partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\beta}\tau\ (\Delta+\mathcal{K})^{\alpha\chi} - 3\ \partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\beta}\tau\ (\Delta+\mathcal{K})^{\chi\alpha} + 3\ \partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}\tau\ (\Delta+\mathcal{K})^{\alpha\beta} + 3\ \partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}\tau\ (\Delta+\mathcal{K})^{\beta\alpha} +$	
	$4 \ \textit{i} \ \textit{k}^{X} \ \partial_{\epsilon} \partial_{\chi} \partial^{\beta} \partial^{\alpha} \sigma^{\delta}_{\ \delta} - 6 \ \textit{i} \ \textit{k}^{X} \ \partial_{\epsilon} \partial_{\delta} \partial_{\chi} \partial^{\alpha} \sigma^{\delta\beta\epsilon} - 6 \ \textit{i} \ \textit{k}^{X} \ \partial_{\epsilon} \partial_{\delta} \partial_{\chi} \partial^{\beta} \sigma^{\delta\alpha\epsilon} + 6 \ \textit{i} \ \textit{k}^{X} \ \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi} \sigma^{\alpha\beta\delta} +$	
	$6 \ i \ k^X \ \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi} \sigma^{\beta \alpha \delta} + 2 \ \eta^{\alpha \beta} \ \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi \tau} \left( \Delta + \mathcal{K} \right)^{X \delta} - 2 \ \eta^{\alpha \beta} \ \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\delta}_{\tau} \left( \Delta + \mathcal{K} \right)^{X}_{\chi} - 4 \ i \ \eta^{\alpha \beta} \ k^X \ \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial_{\chi} \sigma^{\delta}_{\delta}^{\epsilon} \right) == 0$	
Total expected gauge generators:		16

# <u>Massive</u> spectrum



#### (There are no massless particles)

<u>Gauge symmetries</u>

### (Not yet implemented in PSALTer)

 $r \cdot < 0 & t \cdot > 0$ 

<u>Unitarity</u> conditions

<u>Validity</u> <u>assumptions</u>

## (Not yet implemented in PSALTer)