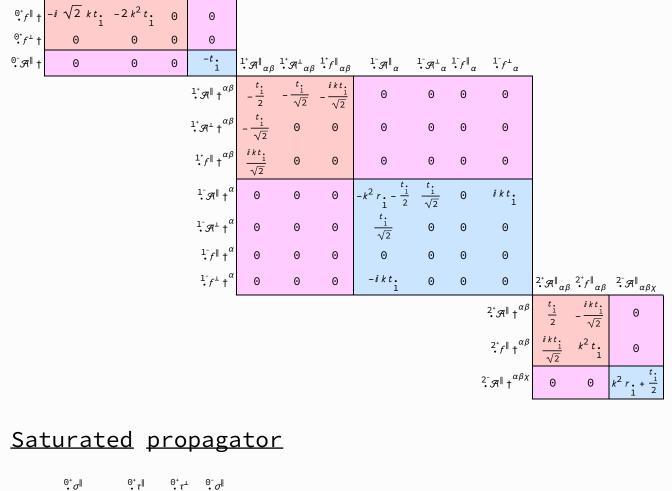
$S = \iiint \left(\mathcal{A}^{\alpha\beta\chi} \ \sigma_{\alpha\beta\chi} + f^{\alpha\beta} \ \tau_{(\Delta+\mathcal{K})_{\alpha\beta}} - \frac{2}{3} r_{\mathbf{1}} \left(3 \, \partial_{\beta}\mathcal{A}_{,\,\,\theta}^{\ \theta} \, \partial^{i}\mathcal{A}^{\alpha\beta}_{\,\,\alpha} - 3 \, \partial_{i}\mathcal{A}_{\,\beta}^{\ \theta} \, \partial^{i}\mathcal{A}^{\alpha\beta}_{\,\,\alpha} - 3 \, \partial_{\alpha}\mathcal{A}^{\alpha\beta}_{\,\,i} \, \partial_{\theta}\mathcal{A}_{\,\beta}^{\ \theta}_{\,\,i} + 6 \, \partial^{i}\mathcal{A}^{\alpha\beta}_{\,\,\alpha} \, \partial_{\theta}\mathcal{A}_{\,\beta}^{\ \theta}_{\,\,i} + 3 \, \partial_{\alpha}\mathcal{A}^{\alpha\beta}_{\,\,i} \, \partial_{\theta}\mathcal{A}_{\,\,\beta}^{\ \theta}_{\,\,i} - \partial_{\beta}\mathcal{A}_{\,\alpha\beta}_{\,\,i} \, \partial^{\theta}\mathcal{A}^{\alpha\beta}_{\,\,i} + 4 \, \partial_{\beta}\mathcal{A}_{\,\,i\,\theta\alpha}^{\ \alpha\beta}_{\,\,i} + \partial_{i}\mathcal{A}_{\,\alpha\beta\theta}^{\,\,\alpha\beta}_{\,\,i} - \partial_{\theta}\mathcal{A}_{\,\alpha\beta}_{\,\,i} \, \partial^{\theta}\mathcal{A}^{\alpha\beta}_{\,\,i} - \partial_{\theta}\mathcal{A}_{\,\alpha\beta}_{\,\,i} \, \partial^{\theta}\mathcal{A}^{\alpha\beta}_{\,\,i} \right) + \\ \frac{1}{2} \, t_{\mathbf{1}} \left(2 \, \mathcal{A}^{\alpha_{i}}_{\,\,\alpha} \, \mathcal{A}_{\,\,i\,\theta}^{\,\,\theta} - 4 \, \mathcal{A}_{\,\alpha\,\theta}^{\,\,\theta} \, \partial_{i}f^{\alpha_{i}} + 4 \, \mathcal{A}_{\,\,i\,\theta}^{\,\,\theta} \, \partial^{i}f^{\alpha}_{\,\,\alpha} - 2 \, \partial_{i}f^{\,\,\theta}_{\,\,\theta}^{\,\,\partial^{i}}f^{\alpha}_{\,\,\alpha}^{\,\,\alpha} - 2 \, \partial_{i}f^{\,\,\alpha}_{\,\,i} \, \partial_{\theta}f^{\,\,\alpha}_{\,\,\alpha}^{\,\,\theta} + 4 \, \partial^{i}f^{\,\,\alpha}_{\,\,\alpha}^{\,\,\partial\theta} \, \partial^{i}f^{\,\,\alpha}_{\,\,\alpha}^{\,\,\theta} - 2 \, \partial_{\alpha}f_{\,\,i\,\theta}^{\,\,\theta} \, \partial^{i}f^{\alpha_{i}} - \partial_{\alpha}\mathcal{A}_{\,i\,\theta}^{\,\,\theta} \, \partial^{i}f^{\alpha_{i}}^{\,\,\alpha} - 2 \, \partial_{i}f^{\,\,\theta}_{\,\,\theta}^{\,\,\partial^{i}}f^{\,\,\alpha}_{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}_{\,\,\alpha}^{\,\,\theta} + 4 \, \partial^{i}f^{\,\,\alpha}_{\,\,\alpha}^{\,\,\alpha}_{\,\,\theta}^{\,\,\theta}_{\,\,i}^{\,\,\theta}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}_{\,\,\theta}^{\,\,\theta}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}_{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}_{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}_{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{\,\,\alpha}^{$

$\frac{0^{*}\mathcal{R}^{\parallel}}{2^{*}} = \frac{0^{*}f^{\parallel}}{2^{*}} = \frac{0^{*}}{2^{*}}$

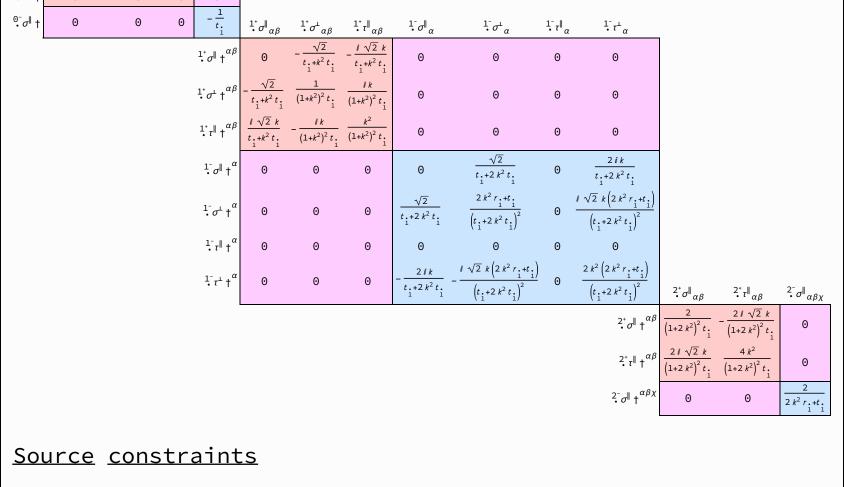
<u>Wave</u> <u>operator</u>

PSALTer results panel



$0^{+}\sigma^{\parallel} + \frac{1}{(1-x)^{2}} \qquad i\sqrt{2} \qquad k$

 $0^{+}_{\cdot} \tau^{\parallel} + \frac{i \sqrt{2} k}{(1+2 k^{2})^{2} t_{1}} - \frac{2 k^{2}}{(1+2 k^{2})^{2} t_{1}} = 0$



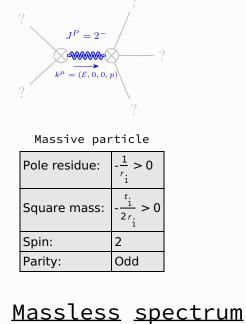
Spin-parity form Covariant form

- 1 1 - 7 -		
⁰ * τ [⊥] == 0	$\partial_{\beta}\partial_{\alpha}\tau \left(\Delta+\mathcal{K}\right)^{\alpha\beta} == 0$	1
$-2 i k^{0^+} \sigma^{\parallel} + {}^{0^+} \tau^{\parallel} == 0$	$\partial_{\beta}\partial_{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\beta} == \partial_{\beta}\partial^{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\alpha}_{\alpha} + 2 \partial_{\chi}\partial^{\chi}\partial_{\beta}\sigma^{\alpha}_{\alpha}^{\beta}$	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⁻ _τ ∥ ^α == 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
$i k 1^{+}_{\bullet} \sigma^{\perp}^{\alpha\beta} + 1^{+}_{\bullet} \tau^{\parallel}^{\alpha\beta} = 0$	$\partial_{\chi}\partial^{\alpha}{}_{\tau}\left(\Delta+\mathcal{K}\right)^{\beta\chi} + \partial_{\chi}\partial^{\beta}{}_{\tau}\left(\Delta+\mathcal{K}\right)^{\chi\alpha} + \partial_{\chi}\partial^{\chi}{}_{\tau}\left(\Delta+\mathcal{K}\right)^{\alpha\beta} + 2\partial_{\sigma}\partial_{\chi}\partial^{\alpha}\sigma^{\chi\beta\delta} + 2\partial_{\sigma}\partial^{\delta}\partial_{\chi}\sigma^{\chi\alpha\beta} = =$	3
	$\partial_{\chi}\partial^{\alpha}{}_{\tau}\left(\Delta+\mathcal{K}\right)^{\chi\beta}+\partial_{\chi}\partial^{\beta}{}_{\tau}\left(\Delta+\mathcal{K}\right)^{\alpha\chi}+\partial_{\chi}\partial^{\chi}{}_{\tau}\left(\Delta+\mathcal{K}\right)^{\beta\alpha}+2\partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\chi\alpha\delta}$	
$-2 i k 2^{+} \sigma \ ^{\alpha \beta} + 2^{+} \tau \ ^{\alpha \beta} = 0$	$-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}\partial^{\alpha}_{\tau}\left(\Delta+\mathcal{K}\right)^{\chi}_{\ \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^{\beta}_{\tau}\left(\Delta+\mathcal{K}\right)^{\alpha\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}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}_{\tau}\left(\Delta+\mathcal{K}\right)^{\chi\beta}-3\ \partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial_{\chi}\partial^{\alpha}\partial$	5
	$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 i k^{\chi} \partial_{\epsilon} \partial_{\chi} \partial^{\beta} \partial^{\alpha} \sigma^{\delta}_{ \delta} = - 0 i i i i i i i i i $	
	$6 \ i \ k^X \ \partial_{\epsilon} \partial_{\delta} \partial_{\chi} \partial^{\alpha} \sigma^{\delta\beta\epsilon} - 6 \ i \ k^X \ \partial_{\epsilon} \partial_{\delta} \partial_{\chi} \partial^{\beta} \sigma^{\delta\alpha\epsilon} + 6 \ i \ k^X \ \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi} \sigma^{\alpha\beta\delta} + 6 \ i \ k^X \ \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi} \sigma^{\beta\alpha\delta} +$	
	$2 \eta^{\alpha\beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi\tau} (\Delta + \mathcal{K})^{\chi\delta} - 2 \eta^{\alpha\beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\delta}_{\tau} (\Delta + \mathcal{K})^{\chi}_{\chi} - 4 i \eta^{\alpha\beta} k^{\chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial_{\chi} \sigma^{\delta}_{\delta} \epsilon = 0$	
Total expected gauge generators:		16

Multiplicities

n

<u>Massive</u> <u>spectrum</u>



(There are no massless particles)

Gauge symmetries

(Not yet implemented in PSALTer)

<u>Unitarity</u> conditions

r. < 0 && t. > 0

<u>Validity</u> assumptions

(Not yet implemented in PSALTer)