$\mathcal{S} = \iiint \left(\frac{1}{6} \left(6 \ \mathcal{A}^{\alpha\beta\chi} \ \sigma_{\alpha\beta\chi} + 6 \ f^{\alpha\beta} \ \tau \left(\Delta + \mathcal{K}\right)_{\alpha\beta} + 8 \ r_{2} \ \partial_{\beta}\mathcal{A}_{\alpha_{1}\theta} \ \partial^{\theta}\mathcal{A}^{\alpha\beta_{1}} - 4 \ r_{2} \ \partial_{\beta}\mathcal{A}_{\alpha\theta_{1}} \ \partial^{\theta}\mathcal{A}^{\alpha\beta_{1}} + 4 \ r_{2} \ \partial_{\beta}\mathcal{A}_{\alpha\theta_{1}} \partial^{\theta}\mathcal{A}^{\alpha\beta_{1}} - 4 \ r_{3} \ \partial_{\beta}\mathcal{A}_{\alpha\theta_{1}} \partial^{\theta}\mathcal{A}^{\alpha\beta_{1}} + 4 \ r_{4} \ r_{5} \ \partial_{\beta}\mathcal{A}_{\alpha\beta_{1}\theta\alpha} \partial^{\theta}\mathcal{A}^{\alpha\beta_{1}} - 4 \ r_{5} \ \partial_{\beta}\mathcal{A}_{\alpha\theta_{1}} \partial^{\theta}\mathcal{A}^{\alpha\beta_{1}} + 4 \ r_{5} \ \partial_{\beta}\mathcal{A}_{\alpha\beta_{1}\theta\alpha} \partial^{\theta}\mathcal{A}^{\alpha\beta_{1}} - 4 \ r_{5} \ \partial_{\beta}\mathcal{A}_{\alpha\theta_{1}} \partial^{\theta}\mathcal{A}^{\alpha\beta_{1}} + 4 \ r_{5} \ \partial_{\beta}\mathcal{A}_{\alpha\beta_{1}\theta\alpha} \partial^{\theta}\mathcal{A}^{\alpha\beta_{1}} - 4 \ r_{5} \ \partial_{\beta}\mathcal{A}_{\alpha\theta_{1}} \partial^{\theta}\mathcal{A}^{\alpha\beta_{1}} + 4 \ r_{5} \ \partial_{\beta}\mathcal{A}_{\alpha\beta_{1}\theta\alpha} \partial^{\theta}\mathcal{A}^{\alpha\beta_{1}} - 4 \ r_{5} \ \partial_{\beta}\mathcal{A}_{\alpha\theta_{1}} \partial^{\theta}\mathcal{A}^{\alpha\beta_{1}} + 4 \ r_{5} \ \partial_{\beta}\mathcal{A}_{\alpha\beta_{1}\theta\alpha} \partial^{\theta}\mathcal{A}^{\alpha\beta_{1}} - 4 \ r_{5} \ \partial_{\beta}\mathcal{A}_{\alpha\theta_{1}} \partial^{\theta}\mathcal{A}^{\alpha\beta_{1}} + 4 \ r_{5} \ \partial_{\beta}\mathcal{A}_{\alpha\beta_{1}\theta\alpha} \partial^{\theta}\mathcal{A}^{\alpha\beta_{1}} - 4 \ r_{5} \ \partial_{\beta}\mathcal{A}_{\alpha\theta_{1}} \partial^{\theta}\mathcal{A}^{\alpha\beta_{1}} - 4 \ r_{5} \ \partial_{\beta}\mathcal{A}^{\alpha\beta_{1}} \partial^{\theta}\mathcal{A}^{\alpha\beta_{1}} \partial^{\theta}\mathcal{A}$ $2\,r_{\underbrace{2}}\,\partial_{i}\mathcal{A}_{\alpha\beta\theta}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i} + 2\,r_{\underbrace{2}}\,\partial_{\theta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i} - 4\,r_{\underbrace{2}}\,\partial_{\theta}\mathcal{R}_{\alpha\,i\,\beta}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i} + 4\,t_{\underbrace{2}}\,\,\mathcal{R}_{i\,\theta\alpha}\,\,\partial^{\theta}f^{\alpha\,i} + 4\,t_{\underbrace{2}}\,\,\mathcal{R}_{i\,\theta\alpha}\,\partial^{\theta}f^{\alpha\,i} + 4\,t_{\widehat{2}}\,\mathcal{R}_{i\,\alpha}\,\partial^{\theta}f^{\alpha\,i} + 4\,t_{\widehat{2}}\,\mathcal{R}$ $2\,t_{2}\,\partial_{\alpha}f_{\,_{1}\,\theta}\,\partial^{\theta}f^{\alpha\,\prime}-t_{2}\,\partial_{\alpha}f_{\,\theta\,_{1}}\,\partial^{\theta}f^{\alpha\,\prime}-t_{2}\,\partial_{i}f_{\,\alpha\,\theta}\,\partial^{\theta}f^{\alpha\,\prime}+t_{2}\,\partial_{\theta}f_{\,\alpha\,_{1}}\,\partial^{\theta}f^{\alpha\,\prime}-t_{2}\,\partial_{\theta}f_{\,_{1}\,\alpha}\,\partial^{\theta}f^{\alpha\,\prime}-t_{3}\,\partial_{\theta}f_{\,_{1}\,\alpha}\,\partial^{\theta}f^{\alpha\,\prime}-t_{4}\,\partial_{\theta}f_{\,_{2}\,\alpha}\,\partial^{\theta}f^{\alpha\,\prime}-t_{4}\,\partial_{\theta}f^{\alpha\,\prime}-t_{5}\,\partial$ $4t_{2} \mathcal{A}_{\alpha\theta_{1}}\left(\mathcal{A}^{\alpha_{1}\theta}+\partial^{\theta}f^{\alpha_{1}}\right)+2t_{2} \mathcal{A}_{\alpha_{1}\theta}\left(\mathcal{A}^{\alpha_{1}\theta}+2\partial^{\theta}f^{\alpha_{1}}\right)\right)\left[t,\,x,\,y,\,z\right]dz\,dy\,dx\,dt$ **Wave operator** ^{0⁺} \mathcal{A}^{\parallel} † 0 ${\stackrel{0^+}{\cdot}}f^{\parallel}$ †

^{⊙⁻}Æ[∥]†

PSALTer results panel

 $^{1}\mathcal{A}^{\parallel}\uparrow^{\alpha}$ 0 0 0 0 0 $^{1}_{\bullet}f^{\parallel}\uparrow^{\alpha}$ 0 0 0 0 0 $^{1^{-}}_{\bullet}f^{\perp}\uparrow^{\alpha}$ ${\overset{2^{+}}{\cdot}}\mathcal{A}^{\parallel}{}_{\alpha\beta}\ {\overset{2^{+}}{\cdot}}f^{\parallel}{}_{\alpha\beta}\ {\overset{2^{-}}{\cdot}}\mathcal{A}^{\parallel}{}_{\alpha\beta\chi}$

												$f^{\parallel} \uparrow^{\alpha\beta}$		
												${}^{2^{-}}_{\bullet}\mathcal{A}^{\parallel}$ † ${}^{lphaeta\chi}$	0	
Sat	ur	ate	ed	prop	agato	r								
	${}^{0^+}\sigma^{\parallel}$	$0^+_{\bullet} \tau^{\parallel}$	${}^{0^+}\tau^{\perp}$	0⁻σ∥										
$\stackrel{0^+}{\boldsymbol{\cdot}} \sigma^{\parallel} \uparrow$	0	0	0	0										
${}^{\scriptscriptstyle 0^{\scriptscriptstyle +}}\tau^{\parallel} +$	0	0	0	0										
${\stackrel{0^+}{\cdot}} \tau^\perp \uparrow$	0	0	0	0 0 0										
^{⊙-} σ [∥] †	0	0	0	$\frac{1}{k^2 r_1 + t_2}$	$ \begin{array}{c} 1^{+} \\ \bullet \\ \end{array} \sigma \parallel_{\alpha\beta} $	$^{1^{+}}_{\bullet}\sigma^{\perp}{}_{\alpha\beta}$	$\left. \stackrel{1^{+}}{\cdot}_{\tau} \right _{\alpha\beta}$	$^{1^{-}}\sigma^{\parallel}_{\alpha}$	$^{1^{-}}\sigma^{\perp}{}_{\alpha}$	$\left. \begin{array}{cc} 1^{-} \mathbf{\tau} \right\ _{\alpha} \end{array}$	$^{1^-}\tau^{\perp}_{\alpha}$			
				$^{1^{+}}\sigma^{\parallel}$ † $^{\alpha\beta}$	$\frac{6}{(3+k^2)^2 t_{\frac{1}{2}}}$	$\frac{3 \sqrt{2}}{(3+k^2)^2 t}$	$\frac{3 i \sqrt{2} k}{\left(3+k^2\right)^2 t}$	0	0	0	0			
				$^{1^{+}}\sigma^{\perp}$ † $^{\alpha\beta}$	$\frac{3 \sqrt{2}}{(3+k^2)^2 t_{\frac{1}{2}}}$	$\frac{3}{\left(3+k^2\right)^2t}$	$\frac{3 i k}{\left(3+k^2\right)^2 t}$	0	0	Θ	Θ			
				$^{1^{+}}_{\bullet}\tau^{\parallel}$ † $^{\alpha\beta}$	$\frac{6}{(3+k^2)^2 t_{\frac{1}{2}}}$ $\frac{3\sqrt{2}}{(3+k^2)^2 t_{\frac{1}{2}}}$ $-\frac{3i\sqrt{2}k}{(3+k^2)^2 t_{\frac{1}{2}}}$	$-\frac{3 i k}{\left(3+k^2\right)^2 t}$	$\frac{3 k^2}{(3+k^2)^2 t_{\frac{1}{2}}}$	0	0	0	Θ			
				$\frac{1}{2} \sigma^{\parallel} + \alpha$	0	0	0	0	0	0	0			

0

0

0

0

0

0

0

 $^{2^{+}}_{\bullet}\tau^{\parallel}\uparrow^{lphaeta}$ $^{2^{-}}\sigma^{\parallel} + ^{\alpha\beta\chi}$

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

0

Multiplicities

0

0

0

Source constraints

Spin-parity form

 $^{1^{-}}\sigma^{\parallel}$ † $^{\alpha}$ $\frac{1}{\cdot}\sigma^{\perp}\uparrow^{\alpha}$

 $\mathbf{1}^{-}_{\bullet}\tau^{\parallel}\uparrow^{\alpha}$

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

0

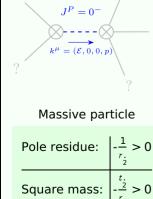
Covariant form

0

0

^{Θ+} τ [⊥] == Θ	$\partial_{\beta}\partial_{\alpha\tau} \left(\Delta + \mathcal{H}\right)^{\alpha\beta} == 0$	1
Θ⁺τ∥ == Θ	$\partial_{\beta}\partial_{\alpha\tau} \left(\Delta + \mathcal{K}\right)^{\alpha\beta} = \partial_{\beta}\partial^{\beta}_{\tau} \left(\Delta + \mathcal{K}\right)^{\alpha}_{\alpha}$	1
^{Θ+} _• σ == Θ	$\partial_{\beta}\sigma_{\alpha}^{\alpha\beta} = 0$	1
1- _τ α == 0	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau \left(\Delta+\mathcal{K}\right)^{\beta\chi} = \partial_{\chi}\partial^{\chi}\partial_{\beta}\tau \left(\Delta+\mathcal{K}\right)^{\alpha\beta}$	3
$\frac{1}{\tau} \eta^{\alpha} = 0$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\beta\chi} = \partial_{\chi}\partial^{\chi}\partial_{\beta}\tau \left(\Delta + \mathcal{K}\right)^{\beta\alpha}$	3
$\frac{1}{\cdot}\sigma^{\perp}^{\alpha} == 0$	$\partial_{\chi}\partial_{\beta}\sigma^{\beta\alpha\chi} == 0$	3
$\frac{1}{\bullet}^{\circ} \sigma^{\parallel}^{\alpha} = 0$	$\partial_{\delta}\partial^{\alpha}\sigma_{\chi}^{\chi} + \partial_{\delta}\partial^{\delta}\sigma_{\chi}^{\alpha} = \partial_{\delta}\partial_{\chi}\sigma_{\chi}^{\chi\alpha\delta}$	3
$i k \cdot 1^+ \sigma^{\parallel \alpha \beta} + 1^+ \tau^{\parallel \alpha \beta} = 0$	$\partial_{\chi}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\beta\chi}+\partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\chi\alpha}+\partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\beta}+\partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\chi\alpha\delta}+\partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\alpha\beta\chi}==$	3
	$\partial_{\chi}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\chi\beta}+\partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\chi}+\partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\beta\alpha}+\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\chi\beta\delta}+\partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\beta\alpha\chi}$	
$1^{+}_{\bullet}\sigma^{\parallel}^{\alpha\beta} = 1^{+}_{\bullet}\sigma^{\perp}^{\alpha\beta}$	$3 \partial_{\delta} \partial_{\chi} \partial^{\alpha} \sigma^{\chi \beta \delta} + \partial_{\delta} \partial^{\delta} \partial_{\chi} \sigma^{\beta \alpha \chi} + 2 \partial_{\delta} \partial^{\delta} \partial_{\chi} \sigma^{\chi \alpha \beta} = 3 \partial_{\delta} \partial_{\chi} \partial^{\beta} \sigma^{\chi \alpha \delta} + \partial_{\delta} \partial^{\delta} \partial_{\chi} \sigma^{\alpha \beta \chi}$	3
$\frac{2^{-}}{6} \sigma^{\parallel} \alpha^{\beta} \chi = 0$	$3 \partial_{\epsilon} \partial_{\delta} \partial^{\chi} \partial^{\alpha} \sigma^{\delta \beta \epsilon} + 3 \partial_{\epsilon} \partial^{\epsilon} \partial^{\chi} \partial^{\alpha} \sigma^{\delta \beta}_{ \delta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\beta} \sigma^{\alpha \chi \delta} + 4 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\beta} \sigma^{\chi \alpha \delta} +$	5
	$2\ \partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\beta}\sigma^{\delta\alpha\chi} + 2\ \partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\chi}\sigma^{\beta\alpha\delta} + 4\ \partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\chi}\sigma^{\delta\alpha\beta} + 2\ \partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\alpha\beta\chi} +$	
	$3 \eta^{\beta \chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial^{\alpha} \sigma^{\delta}_{\delta} {}^{\epsilon} + 3 \eta^{\alpha \chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial_{\delta} \sigma^{\delta \beta \epsilon} + 3 \eta^{\beta \chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial^{\epsilon} \sigma^{\delta \alpha}_{\delta} =$	
	$3 \partial_{\epsilon} \partial_{\delta} \partial^{\chi} \partial^{\beta} \sigma^{\delta \alpha \epsilon} + 3 \partial_{\epsilon} \partial^{\epsilon} \partial^{\chi} \partial^{\beta} \sigma^{\delta \alpha}_{ \delta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\alpha} \sigma^{\beta \chi \delta} + 4 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\alpha} \sigma^{\chi \beta \delta} +$	
	$2\ \partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\alpha}\sigma^{\delta\beta\chi} + 2\ \partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\chi}\sigma^{\alpha\beta\delta} + 2\ \partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\beta\alpha\chi} + 4\ \partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\chi\alpha\beta} +$	
	$3 \eta^{\alpha\chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial^{\beta} \sigma^{\delta}_{\delta}^{\epsilon} + 3 \eta^{\beta\chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial_{\delta} \sigma^{\delta\alpha\epsilon} + 3 \eta^{\alpha\chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial^{\epsilon} \sigma^{\delta\beta}_{\delta}$	
2 _τ τ αβ == Θ	$4 \partial_{\delta} \partial_{\chi} \partial^{\beta} \partial^{\alpha}_{\tau} (\Delta + \mathcal{K})^{\chi \delta} + 2 \partial_{\delta} \partial^{\delta} \partial^{\beta} \partial^{\alpha}_{\tau} (\Delta + \mathcal{K})^{\chi}_{\chi} +$	5
	$3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi}_{\tau} (\Delta + \mathcal{K})^{\alpha \beta} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi}_{\tau} (\Delta + \mathcal{K})^{\beta \alpha} + 2 \eta^{\alpha \beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi \tau} (\Delta + \mathcal{K})^{\chi \delta} = 0$	
	$3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\beta \chi} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\chi \beta} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\beta} \tau (\Delta + \mathcal{K})^{\alpha \chi} + \\$	
	$3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\beta} \tau (\Delta + \mathcal{K})^{\chi \alpha} + 2 \eta^{\alpha \beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\delta} \tau (\Delta + \mathcal{K})^{\chi}_{\chi}$	
$2^+_{\bullet \sigma} \parallel^{\alpha \beta} = 0$	$3 \partial_{\delta} \partial_{\chi} \partial^{\alpha} \sigma^{\chi \beta \delta} + 3 \partial_{\delta} \partial_{\chi} \partial^{\beta} \sigma^{\chi \alpha \delta} + 2 \eta^{\alpha \beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \sigma^{\chi}_{\chi}^{\delta} = $	5
	$2 \partial_{\delta} \partial^{\beta} \partial^{\alpha} \sigma_{\chi}^{\chi} {}^{\delta} + 3 \left(\partial_{\delta} \partial^{\delta} \partial_{\chi} \sigma^{\alpha \beta \chi} + \partial_{\delta} \partial^{\delta} \partial_{\chi} \sigma^{\beta \alpha \chi} \right)$	
Total expected gai	uge generators:	36

Massive spectrum



Spin:

Parity:

(No particles)

Unitarity conditions

Odd

Massless spectrum

r. < 0 && t. > 0