$\iiint\!\!\int\!\!\!\int\!\!\!\int\!\!\!\int\!\!\!\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}-12\,r_{\underbrace{1}}\,\,\partial_{\beta}\mathcal{A}_{\;\;\theta}^{\;\;\theta}\,\partial^{\prime}\mathcal{A}^{\alpha\beta}_{\;\;\alpha}+12\,r_{\underbrace{1}}\,\,\partial_{\prime}\mathcal{A}_{\;\;\beta}^{\;\;\theta}\,\partial^{\prime}\mathcal{A}^{\alpha\beta}_{\;\;\alpha}+12\,r_{\underbrace{1}}\,\,\partial_{\alpha}\mathcal{A}^{\alpha\beta}_{\;\;\alpha}+12\,r_{\underbrace{1}}\,\partial_{\alpha}\mathcal{A}^{\alpha\beta}_{\;\;\beta}^{\;\;\alpha\beta}_{\;\;\beta}\right]-24\,r_{\underbrace{1}}^{\;\;\alpha\beta}_{\;\;\alpha\beta\chi}+12\,r_{\underbrace{1}}^{\;\;\alpha\beta\chi}_{\;\;\alpha\beta\chi}+12\,r_{\underbrace{1}}^{\;\;\alpha\beta\chi}_{\;\;\alpha\beta\chi}+12\,r_{\underbrace{1}}^{\;\;\alpha\beta\chi}_{\;\;\alpha\beta\chi}+12\,r_{\underbrace{1}}^{\;\;\alpha\beta\chi}_{\;\;\alpha\beta\chi}+12\,r_{\underbrace{1}}^{\;\;\alpha\beta\chi}_{\;\;\alpha\beta\chi}+12\,r_{\underbrace{1}}^{\;\;\alpha\beta\chi}_{\;\;\alpha\beta\chi}+12\,r_{\underbrace{1}}^{\;\;\alpha\beta\chi}_{\;\;\alpha\beta\chi}+12\,r_{\underbrace{1}}^{\;\;\alpha\beta\chi}_{\;\;\alpha\beta\chi}+12\,r_{\underbrace{1}}^{\;\;\alpha\beta\chi}_{\;\;\alpha\beta\chi}+12\,r_{\underbrace{1}}^{\;\;\alpha\beta\chi}_{\;\;\alpha\beta\chi}+12\,r_{\underbrace{1}}^{\;\;\alpha\beta\chi}_{\;\;\alpha\beta\chi}+12\,r_{\underbrace{1}}^{\;\;\alpha\beta\chi}_{\;\;\alpha\beta\chi}+12\,r_{\underbrace{1}}^{\;\;\alpha\beta\chi}_{\;\;\alpha\beta\chi}+12\,r_{\underbrace{1}}^{\;\;\alpha\beta\chi}_{\;\;\alpha\beta\chi}+12\,r_{\underbrace{1}}^{\;\;\alpha\beta\chi}_{\;\;\alpha\beta\chi}+12\,r_{\underbrace{1}}^{\;\;\alpha\beta\chi}_{\;\;\alpha\beta\chi}+12\,r_{\underbrace{1}}^{\;\;\alpha\beta\chi}_{\;\;\alpha\beta\chi}+12\,r_{\underbrace{1}}^{\;\;\alpha\gamma}_{\;\;\alpha\beta\chi}+12\,r_{\underbrace{1}}^{\;\;\alpha\gamma}_{\;\;\alpha\gamma}+12\,r_{\underbrace{1}}^{\;\;\alpha$ $r. \ \partial^{\prime} \mathcal{A}^{\alpha\beta}_{\quad \alpha} \ \partial_{\theta} \mathcal{A}_{\beta}^{\quad \theta} \ - \ 12 \ r. \ \partial_{\alpha} \mathcal{A}^{\alpha\beta}_{\quad \beta} \ \partial_{\theta} \mathcal{A}_{\beta}^{\quad \theta} \ + \ 24 \ r. \ \partial^{\prime} \mathcal{A}^{\alpha\beta}_{\quad \alpha} \ \partial_{\theta} \mathcal{A}_{\beta}^{\quad \theta} \ - \ 8 \ r. \ \partial_{\beta} \mathcal{A}_{\alpha\beta}^{\quad \theta} \ \partial^{\theta} \mathcal{A}^{\alpha\beta}_{\quad \beta} \ + \ 24 \ r. \ \partial^{\prime} \mathcal{A}^{\alpha\beta}_{\quad \alpha} \ \partial_{\theta} \mathcal{A}_{\beta}^{\quad \theta} \ - \ 8 \ r. \ \partial_{\beta} \mathcal{A}_{\alpha\beta}^{\quad \theta} \ \partial^{\theta} \mathcal{A}^{\alpha\beta}_{\quad \beta} \ + \ \partial^{\beta} \mathcal{A}^{\alpha\beta}_{\quad \beta} \ \partial^$ $8 r_{2} \partial_{\beta} \mathcal{A}_{\alpha_{1} \theta} \partial^{\theta} \mathcal{A}^{\alpha \beta_{1}} + 4 r_{1} \partial_{\beta} \mathcal{A}_{\alpha \theta_{1}} \partial^{\theta} \mathcal{A}^{\alpha \beta_{1}} - 4 r_{2} \partial_{\beta} \mathcal{A}_{\alpha \theta_{1}} \partial^{\theta} \mathcal{A}^{\alpha \beta_{1}} - 16 r_{1} \partial_{\beta} \mathcal{A}_{1 \theta \alpha} \partial^{\theta} \mathcal{A}^{\alpha \beta_{1}} +$ $4 r. \partial_{\beta} \mathcal{A}_{i \theta \alpha} \partial^{\theta} \mathcal{A}^{\alpha \beta i} - 4 r. \partial_{i} \mathcal{A}_{\alpha \beta \theta} \partial^{\theta} \mathcal{A}^{\alpha \beta i} - 2 r. \partial_{i} \mathcal{A}_{\alpha \beta \theta} \partial^{\theta} \mathcal{A}^{\alpha \beta i} + 4 r. \partial_{\theta} \mathcal{A}_{\alpha \beta i} \partial^{\theta} \mathcal{A}^{\alpha \beta i} + 4 r. \partial_{\theta} \mathcal{A}_{\alpha \beta i} \partial^{\theta} \mathcal{A}^{\alpha \beta i} + 4 r. \partial_{\theta} \mathcal{A}_{\alpha \beta i} \partial^{\theta} \mathcal{A}^{\alpha \beta i} + 4 r. \partial_{\theta} \mathcal{A}_{\alpha \beta i} \partial^{\theta} \mathcal{A}^{\alpha \beta i} + 4 r. \partial_{\theta} \mathcal{A}_{\alpha \beta i} \partial^{\theta} \mathcal{A}^{\alpha \beta i} \partial^{\theta} \mathcal{A}^{\alpha$ $2\,r_{2}\,\partial_{\theta}\mathcal{R}_{\alpha\beta\,i}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i} + 4\,r_{1}\,\partial_{\theta}\mathcal{R}_{\alpha\,i\,\beta}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i} - 4\,r_{2}\,\partial_{\theta}\mathcal{R}_{\alpha\,i\,\beta}\,\partial^{\theta}\mathcal{R}^{\alpha\beta\,i} + 4\,t_{2}\,\mathcal{R}_{i\,\theta\alpha}\,\partial^{\theta}f^{\alpha\,i} + 4\,r_{3}\,\partial_{\alpha}\mathcal{R}_{\alpha\,i\,\beta}\,\partial^{\alpha}\mathcal{R}_{\alpha\,$ $2\underbrace{t.}_{2}\underbrace{\partial_{\alpha}f_{i\theta}}_{\partial\theta}\partial^{\theta}f^{\alpha i} - \underbrace{t.}_{2}\underbrace{\partial_{\alpha}f_{\theta i}}_{\partial\theta}\partial^{\theta}f^{\alpha i} - \underbrace{t.}_{2}\underbrace{\partial_{i}f_{\alpha\theta}}_{\partial\theta}\partial^{\theta}f^{\alpha i} + \underbrace{t.}_{2}\underbrace{\partial_{\theta}f_{\alpha i}}_{\partial\theta}\partial^{\theta}f^{\alpha i} - \underbrace{t.}_{2}\underbrace{\partial_{\theta}f_{\alpha$ $4t. \mathcal{A}_{\alpha\theta_{1}}\left(\mathcal{A}^{\alpha_{1}\theta}+\partial^{\theta}f^{\alpha_{1}}\right)+2t. \mathcal{A}_{\alpha_{1}\theta}\left(\mathcal{A}^{\alpha_{1}\theta}+2\,\partial^{\theta}f^{\alpha_{1}}\right)\right)\left[t,\,x,\,y,\,z\right]dz\,dy\,dx\,dt$ **Wave operator**

 $\| \mathbf{1}^{+}_{\bullet} f \|_{\alpha\beta}$

3

3

0

0

 $\frac{\sqrt{2} t_{\cdot}}{2} \quad \frac{1}{3} i \sqrt{2} kt_{\cdot}$

 ${}^{1} \cdot \mathcal{A}^{\parallel}_{\alpha} {}^{1} \cdot \mathcal{A}^{\perp}_{\alpha} {}^{1} \cdot f^{\parallel}_{\alpha}$

0

0

0

0

0

 ${\stackrel{2^{\scriptscriptstyle +}}{\scriptstyle \bullet}}\sigma^{\parallel}{}_{\alpha\beta} \,\, {\stackrel{2^{\scriptscriptstyle +}}{\scriptstyle \bullet}}\tau^{\parallel}{}_{\alpha\beta} \,\, {\stackrel{2^{\scriptscriptstyle -}}{\scriptstyle \bullet}}\sigma^{\parallel}{}_{\alpha\beta\chi}$

0

0 1

 $\frac{1}{k^2 r}$

Multiplicities

0

 $-k^2 r_1$

0

 ${}^{1^{+}}_{\bullet}\mathcal{A}^{\perp}{}_{\alpha\beta}$

 ${}^{1^{+}}_{\bullet}\mathcal{A}^{\parallel}_{\alpha\beta}$

 $||f|| + \frac{\alpha\beta}{3} ||f|| + \frac{1}{3} ||f|| + \frac{1$

^{0⁺}Æ[∥]† ${\stackrel{0^+}{\cdot}}f^{\parallel}$ † ${\stackrel{0^+}{\cdot}} f^{\perp} \dagger$

 $^{0}\mathcal{A}^{\parallel}$ †

 ${\stackrel{0^{\scriptscriptstyle +}}{\cdot}}\mathcal{H}^{\parallel} {\stackrel{0^{\scriptscriptstyle +}}{\cdot}}{}^{f^{\parallel}} {\stackrel{0^{\scriptscriptstyle +}}{\cdot}}{}^{f^{\perp}}$

 $k^2 r \cdot + t \cdot 2$

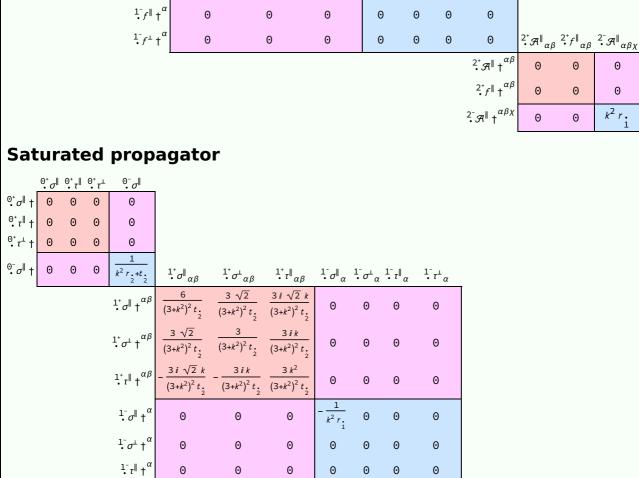
 $^{1^{+}}\mathcal{R}^{\parallel}$ † $^{\alpha\beta}$

 $\stackrel{1^{\scriptscriptstyle +}}{\cdot} \mathcal{A}^{\scriptscriptstyle \perp} + \stackrel{\alpha\beta}{}$

 $^{1^{\text{-}}}\mathcal{A}^{\parallel} \uparrow^{\alpha}$

 $^{1}_{\bullet}\mathcal{A}^{\perp}\dagger^{\alpha}$

PSALTer results panel



Spin-parity form | Covariant form

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

0

0

0

0

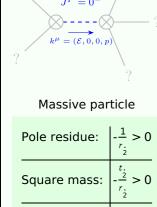
0 $^{2^{+}}\sigma^{\parallel} \uparrow^{lphaeta}$

 $^{2^{+}}_{\bullet}\tau^{\parallel}\uparrow^{lphaeta}$

 $^{2^{-}}\sigma^{\parallel}$ † $^{\alpha\beta\chi}$

Spiri-parity form	Covariant form	Multiplicities
⁰⁺ τ [⊥] == 0	$\partial_{\beta}\partial_{\alpha}\tau \left(\Delta+\mathcal{K}\right)^{\alpha\beta} = 0$	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
⁰⁺ σ == 0	$\partial_{\beta}\sigma^{\alpha}_{\alpha}^{\beta} = 0$	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
$\frac{1}{\tau} \ ^{\alpha} = 0$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}_{\tau} \left(\Delta + \mathcal{K}\right)^{\beta\chi} = \partial_{\chi}\partial^{\chi}\partial_{\beta\tau} \left(\Delta + \mathcal{K}\right)^{\beta\alpha}$	3
1-01 == 0	$\partial_{\chi}\partial_{\beta}\sigma^{\beta\alpha\chi} = 0$	3
$i k 1^+ \sigma^{\parallel}^{\alpha\beta} + 1^+ \tau^{\parallel}^{\alpha\beta} = 0$	$\partial_{\chi}\partial^{\alpha}{}_{\tau}\left(\Delta+\mathcal{K}\right)^{\beta\chi}+\partial_{\chi}\partial^{\beta}{}_{\tau}\left(\Delta+\mathcal{K}\right)^{\chi\alpha}+\partial_{\chi}\partial^{\chi}{}_{\tau}\left(\Delta+\mathcal{K}\right)^{\alpha\beta}+\partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\chi\alpha\delta}+\partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\alpha\beta\chi}==$	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
$2^{+}_{\bullet \tau} \parallel^{\alpha \beta} = 0$	$4 \partial_{\delta} \partial_{\chi} \partial^{\beta} \partial^{\alpha}_{\tau} (\Delta + \mathcal{K})^{\chi \delta} + 2 \partial_{\delta} \partial^{\delta} \partial^{\beta} \partial^{\alpha}_{\tau} (\Delta + \mathcal{K})^{\chi}_{\chi} +$	5
	$3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi}_{\tau} (\Delta + \mathcal{K})^{\alpha \beta} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi}_{\tau} (\Delta + \mathcal{K})^{\beta \alpha} + 2 \eta^{\alpha \beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial_{\chi \tau} (\Delta + \mathcal{K})^{\chi \delta} = 0$	
	$3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} (\Delta + \mathcal{K})^{\beta \chi} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha}_{\tau} (\Delta + \mathcal{K})^{\chi \beta} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\beta}_{\tau} (\Delta + \mathcal{K})^{\alpha \chi} +$	
	$3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\beta} \tau \left(\Delta + \mathcal{K} \right)^{\chi \alpha} + 2 \eta^{\alpha \beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\delta} \tau \left(\Delta + \mathcal{K} \right)^{\chi}_{\chi}$	
$2^{+}_{\bullet \sigma} \parallel^{\alpha \beta} = 0$	$3 \partial_{\delta} \partial_{\chi} \partial^{\alpha} \sigma^{\chi \beta \delta} + 3 \partial_{\delta} \partial_{\chi} \partial^{\beta} \sigma^{\chi \alpha \delta} + 2 \eta^{\alpha \beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \sigma^{\chi \delta}_{\chi} = =$	5
	$2 \partial_{\delta} \partial^{\beta} \partial^{\alpha} \sigma_{\chi}^{\chi} + 3 \left(\partial_{\delta} \partial^{\delta} \partial_{\chi} \sigma^{\alpha \beta \chi} + \partial_{\delta} \partial^{\delta} \partial_{\chi} \sigma^{\beta \alpha \chi} \right)$	
Total expected gauge generators:		28

Massive spectrum



Spin:

Parity:

(No particles)

Massless spectrum

Odd

Unitarity conditions

r. < 0 && t. > 0