$2\,t.\,\partial_{\alpha}f_{\,_{i\,\theta}}\,\partial^{\theta}f^{\alpha i}\,-\,t.\,\partial_{\alpha}f_{\,_{\theta i}}\,\partial^{\theta}f^{\alpha i}\,-\,t.\,\partial_{\alpha}f_{\,_{\theta i}}\,\partial^{\theta}f^{\alpha i}\,-\,t.\,\partial_{\alpha}f_{\,_{\alpha \theta}}\,\partial^{\theta}f^{\alpha i}\,+\,t.\,\partial_{\alpha}f_{\,_{\alpha i}}\,\partial^{\theta}f^{\alpha i}\,-\,t.\,\partial_{\alpha}f_{\,_{\alpha i}}\,\partial^{\theta}f^{\alpha i}\,-\,t.\,\partial_{\alpha}f_{\,$ $4t. \, \mathcal{A}_{\alpha\theta\iota} \, (\, \mathcal{A}^{\alpha\iota\theta} + \partial^\theta f^{\alpha\iota}) + 2t. \, \mathcal{A}_{\alpha\iota\theta} \, (\, \mathcal{A}^{\alpha\iota\theta} + 2\, \partial^\theta f^{\alpha\iota})))[t,\, x,\, y,\, z] \, dz \, dy \, dx \, dt$ Wave operator $0^{+}_{\cdot}\mathcal{F}^{\parallel 0^{+}_{\cdot}f^{\parallel 0^{+}_{\cdot}f^{\perp}}$ 0 ^{0,+}Æ^{||}† $0.^{+}f^{\parallel}$ † 0 0.+ f + 0 0 0 $k^2 r_1 + t_2$ ⁰ A^{||}† $^{1\overset{+}{.}}\mathcal{A}^{\scriptscriptstyle\perp}\,\dagger^{lphaeta}$ 0 $1.^{+} f^{\parallel} \uparrow^{\alpha\beta} - \frac{1}{3} i \sqrt{2} kt. - \frac{1}{3} i kt.$ 0

0

0

0

0

0

0

0

0

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

0

0

0

0

0

0

 $\iiint \int (\frac{1}{6} \left(6 \,\,\mathcal{A}^{\alpha\beta\chi} \,\,\sigma_{\alpha\beta\chi} + 6 \,\,f^{\alpha\beta} \,\,\tau(\Delta + \mathcal{K})_{\alpha\beta} + 8 \,r_{.} \,\partial_{\beta}\mathcal{A}_{\alpha\iota\theta} \,\partial^{\theta}\mathcal{A}^{\alpha\beta\iota} - 4 \,r_{.} \,\partial_{\beta}\mathcal{A}_{\alpha\theta\iota} \,\partial^{\theta}\mathcal{A}^{\alpha\beta\iota} + 4 \,r_{.} \,\partial_{\beta}\mathcal{A}_{\iota\theta\alpha} \,\partial^{\theta}\mathcal{A}^{\alpha\beta\iota} - 2 \,r_{.} \,\partial_{\beta}\mathcal{A}_{\alpha\theta\iota} \,\partial^{\theta}\mathcal{A}^{\alpha\beta\iota} + 4 \,r_{.} \,\partial_{\beta}\mathcal{A}_{\iota\theta\alpha} \,\partial^{\theta}\mathcal{A}^{\alpha\beta\iota} - 2 \,r_{.} \,\partial_{\beta}\mathcal{A}_{\alpha\theta\iota} \,\partial^{\theta}\mathcal{A}^{\alpha\beta\iota} + 4 \,r_{.} \,\partial_{\beta}\mathcal{A}_{\alpha\theta\iota} \,\partial^{\theta}\mathcal{A}^{\alpha\beta\iota} - 2 \,r_{.} \,\partial_{\beta}\mathcal{A}^{\alpha} \,\partial^{\theta}\mathcal{A}^{\alpha\beta\iota} - 2 \,r_{.} \,\partial_{\beta}\mathcal{A}^{\alpha}\mathcal{A}^{\alpha} + 2 \,r_{.} \,\partial_{\beta}\mathcal{A}^{\alpha} \,\partial^{\theta}\mathcal{A}^{\alpha} - 2 \,r_{.} \,\partial_{\beta}\mathcal{A}^{\alpha} \,\partial^{\theta}\mathcal{A}^{\alpha} - 2 \,r_{.} \,\partial_{\beta}\mathcal{A}^{\alpha} \,\partial^{\theta}\mathcal{A}^{\alpha} - 2 \,r_{.} \,\partial_{\beta}\mathcal{A}^{\alpha} \,\partial_{\beta}\mathcal{A}^{\alpha} - 2 \,r_{.} \,\partial_{\beta}\mathcal{A}^{\alpha} \,\partial_{\beta}\mathcal{A}^{\alpha} - 2 \,r_{.} \,\partial_{\beta}\mathcal{A}^{\alpha} - 2 \,r_{.$

0 2 . $^{+}$ \mathcal{R}^{\parallel} $^{+}$ $^{\alpha\beta}$ $^{2,+}f^{\parallel}\dagger^{\alpha\beta}$ $2 \mathcal{A}^{\parallel} + \alpha \beta \chi$ Saturated propagator $\overset{0^+}{\cdot}\sigma^{\parallel}\overset{0^+}{\cdot}\tau^{\parallel}\overset{0^+}{\cdot}\tau^{\scriptscriptstyle \perp}$ $0.^{+}\sigma^{\parallel}$ † $0.^{+}\tau^{\parallel}$ † 0 0 0 $0.^{+}\tau^{\perp}$ † $0^{-}\sigma^{\parallel}$ † 0 $1^{+} \sigma^{\perp} + \frac{3\sqrt{2}}{(3+k^{2})^{2} t_{2}} = \frac{3}{(3+k^{2})^{2} t_{2}} = \frac{3ik}{(3+k^{2})^{2} t_{2}}$ 0 $1^{+}_{7} | +^{\alpha \beta} | -\frac{3i\sqrt{2}k}{(3+k^{2})^{2}t} - \frac{3ik}{(3+k^{2})^{2}t} \cdot \frac{3k^{2}}{(3+k^{2})^{2}t} \cdot \frac{3k^{2}}{(3+k^{2})^{2}t}$

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

 $^{2,+}\sigma^{\parallel}\dagger^{\alpha\beta}$

 $\overset{2^+}{\cdot} \tau^{\parallel} + \overset{\alpha\beta}{\cdot}$

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

0

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

0

0

0

0

1

Multiplicities

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

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

 $^{1}f^{\parallel}\dagger^{\alpha}$

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

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

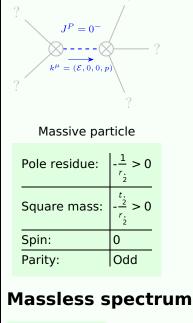
 1 τ^{\parallel} $^{\alpha}$

0

Source constraints Spin-parity form Covariant form $_{\cdot}^{0^{+}}\tau^{\perp} == 0$ $\partial_{\beta}\partial_{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\beta} == 0$ $\partial_{\beta}\partial_{\alpha}\tau\left(\Delta\!+\!\mathcal{K}\right)^{\alpha\beta}==\partial_{\beta}\partial^{\beta}\tau\left(\Delta\!+\!\mathcal{K}\right)^{\alpha}_{\alpha}$ $\stackrel{0^+}{\cdot} \tau^{\parallel} == 0$

PSALTer results panel

$^{0^+}\sigma^{\parallel}==0$	$\partial_{\beta}\sigma_{\alpha}^{\alpha\beta} = 0$	1
$\frac{1}{1}\tau^{\perp}^{\alpha} == 0$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\beta\chi}==\partial_{\chi}\partial^{\chi}\partial_{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\beta}$	3
$1.\tau^{\parallel \alpha} == 0$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\beta\chi}==\partial_{\chi}\partial^{\chi}\partial_{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\beta\alpha}$	3
$\frac{1}{1}\sigma^{\perp}^{\alpha} == 0$	$\partial_{\chi}\partial_{\beta}\sigma^{\beta\alpha\chi}==0$	3
$\frac{1 \cdot \sigma^{\parallel^{\alpha}} == 0}{}$	$\partial_{\delta}\partial^{\alpha}\sigma_{\chi}^{\chi}{}^{\delta} + \partial_{\delta}\partial^{\delta}\sigma_{\chi}^{\alpha}{}_{\chi} == \partial_{\delta}\partial_{\chi}\sigma^{\chi\alpha\delta}$	3
$\overline{ik} 1_{\cdot}^{+} \sigma^{\parallel^{\alpha\beta}} + 1_{\cdot}^{+} \tau^{\parallel^{\alpha\beta}} == 0$	$\partial_{\chi}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\beta\chi}+\partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\chi\alpha}+\partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\beta}+$	3
	$\partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\chi\alpha\delta} + \partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\alpha\beta\chi} = \partial_{\chi}\partial^{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\chi\beta} +$	
	$\partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\chi}+\partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\beta\alpha}+\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\chi\beta\delta}+\partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\beta\alpha\chi}$	
$1^+ \sigma^{\parallel^{\alpha\beta}} = 1^+ \sigma^{\perp^{\alpha\beta}}$	$3 \partial_{\delta} \partial_{\chi} \partial^{\alpha} \sigma^{\chi \beta \delta} + \partial_{\delta} \partial^{\delta} \partial_{\chi} \sigma^{\beta \alpha \chi} + 2 \partial_{\delta} \partial^{\delta} \partial_{\chi} \sigma^{\chi \alpha \beta} = 3 \partial_{\delta} \partial_{\chi} \partial^{\beta} \sigma^{\chi \alpha \delta} + \partial_{\delta} \partial^{\delta} \partial_{\chi} \sigma^{\alpha \beta \chi}$	3
$\frac{2 \left\ \alpha^{\beta \chi}\right\ ^{\alpha \beta \chi}}{2 \left\ \alpha^{\beta \chi}\right\ ^{\alpha \beta \chi}} == 0$	$3 \partial_{\epsilon} \partial_{\delta} \partial^{\chi} \partial^{\alpha} \sigma^{\delta \beta \epsilon} + 3 \partial_{\epsilon} \partial^{\epsilon} \partial^{\chi} \partial^{\alpha} \sigma^{\delta \beta}_{ \delta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\beta} \sigma^{\alpha \chi \delta} + 4 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\beta} \sigma^{\chi \alpha \delta} +$	5
	$2\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\beta}\sigma^{\delta\alpha\chi} + 2\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\chi}\sigma^{\beta\alpha\delta} + 4\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\chi}\sigma^{\delta\alpha\beta} + 2\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\alpha\beta\chi} +$	
	$3 \eta^{\beta\chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial^{\alpha} \sigma^{\delta}_{\delta}{}^{\epsilon} + 3 \eta^{\alpha\chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial_{\delta} \sigma^{\delta\beta\epsilon} + 3 \eta^{\beta\chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial^{\epsilon} \sigma^{\delta\alpha}_{\delta} = =$	
	$3 \partial_{\epsilon} \partial_{\delta} \partial^{\chi} \partial^{\beta} \sigma^{\delta \alpha \epsilon} + 3 \partial_{\epsilon} \partial^{\epsilon} \partial^{\chi} \partial^{\beta} \sigma^{\delta \alpha}{}_{\delta} + 2 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\alpha} \sigma^{\beta \chi \delta} + 4 \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \partial^{\alpha} \sigma^{\chi \beta \delta} +$	
	$2\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\alpha}\sigma^{\delta\beta\chi} + 2\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\chi}\sigma^{\alpha\beta\delta} + 2\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\beta\alpha\chi} + 4\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\chi\alpha\beta} +$	
	$3 \eta^{\alpha\chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial^{\beta} \sigma^{\delta}_{\delta}{}^{\epsilon} + 3 \eta^{\beta\chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial_{\delta} \sigma^{\delta\alpha\epsilon} + 3 \eta^{\alpha\chi} \partial_{\phi} \partial^{\phi} \partial_{\epsilon} \partial^{\epsilon} \sigma^{\delta\beta}_{\delta}$	
$\frac{2^+_{\cdot} \tau^{\parallel^{\alpha\beta}} == 0}{$	$4 \partial_{\delta} \partial_{\chi} \partial^{\beta} \partial^{\alpha} \tau \left(\Delta + \mathcal{K} \right)^{\chi \delta} + 2 \partial_{\delta} \partial^{\delta} \partial^{\beta} \partial^{\alpha} \tau \left(\Delta + \mathcal{K} \right)^{\chi}_{\chi} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\chi} \tau \left(\Delta + \mathcal{K} \right)^{\alpha \beta} +$	5
	$3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}\tau(\Delta+\mathcal{K})^{\beta\alpha}+2\eta^{\alpha\beta}\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial_{\chi}\tau(\Delta+\mathcal{K})^{\chi\delta}==$	
	$3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\beta \chi} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \tau (\Delta + \mathcal{K})^{\chi \beta} + 3 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\beta} \tau (\Delta + \mathcal{K})^{\alpha \chi} +$	
	$3\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\beta}\tau(\Delta+\mathcal{K})^{\chi\alpha}+2\eta^{\alpha\beta}\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\tau(\Delta+\mathcal{K})^{\chi}_{\chi}$	
$2^+_{\cdot}\sigma^{\parallel^{\alpha\beta}}=0$	$3 \partial_{\delta} \partial_{\chi} \partial^{\alpha} \sigma^{\chi \beta \delta} + 3 \partial_{\delta} \partial_{\chi} \partial^{\beta} \sigma^{\chi \alpha \delta} + 2 \eta^{\alpha \beta} \partial_{\epsilon} \partial^{\epsilon} \partial_{\delta} \sigma^{\chi \delta}_{\chi} = 0$	5
	$2\partial_{\delta}\partial^{\beta}\partial^{\alpha}\sigma_{\chi}^{\chi}{}^{\delta} + 3(\partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\alpha\beta\chi} + \partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\beta\alpha\chi})$	
Total expected gauge generators:		36
Massive spectrum		
Massive spectrum		
?		



(No particles)

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