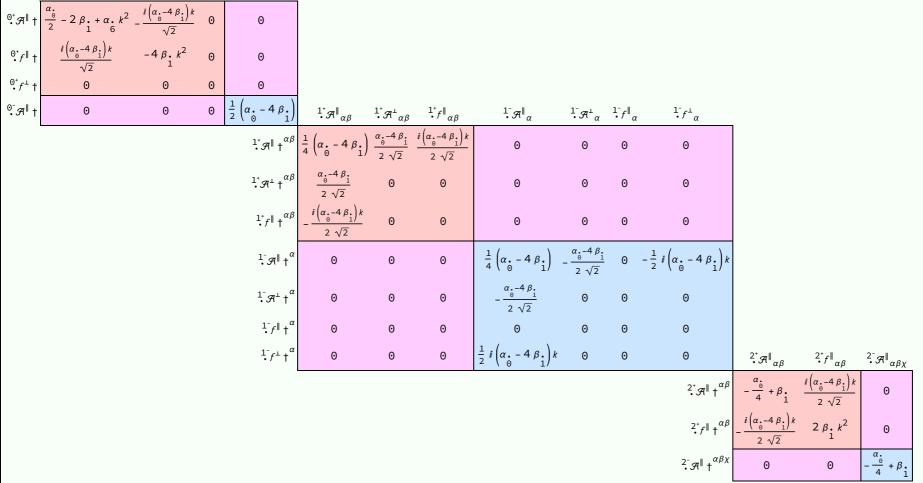
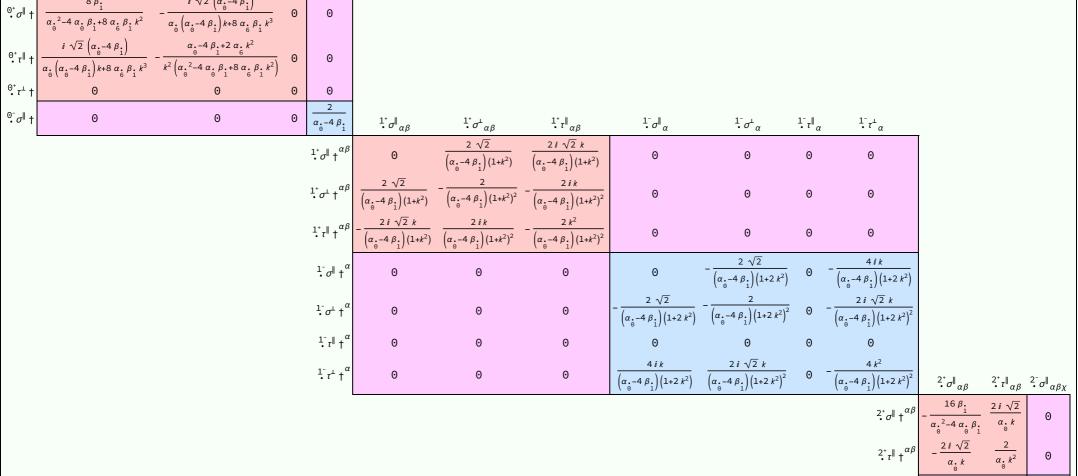
# $S = \iiint \left( -\frac{1}{2} \left( \alpha_{0} - 4 \beta_{1} \right) \mathcal{A}^{\alpha \beta}_{\alpha} \mathcal{A}^{X}_{\beta} + \mathcal{A}^{\alpha \beta \chi} \mathcal{A}^{X}_{\alpha \beta} + f^{\alpha \beta}_{\alpha} \mathcal{A}^{X}_{\alpha \beta} - \alpha_{0}^{*} f^{\alpha \beta}_{\alpha} \partial_{\beta} \mathcal{A}^{X}_{\alpha} + \alpha_{0}^{*} \partial_{\beta} \mathcal{A}^{\alpha \beta}_{\alpha} - 4 \beta_{1}^{*} \mathcal{A}^{X}_{\alpha} \partial_{\beta} f^{\alpha \beta}_{\alpha} + 4 \beta_{1}^{*} \mathcal{A}^{X}_{\beta} \partial_{\beta} f^{\alpha}_{\alpha} - 2 \beta_{1}^{*} \partial_{\beta} f^{\chi}_{\alpha} \partial_{\beta} f^{\alpha}_{\alpha} + \alpha_{0}^{*} f^{\alpha \beta}_{\alpha} \partial_{\chi} \mathcal{A}^{X}_{\beta} - \alpha_{0}^{*} f^{\alpha}_{\alpha} \partial_{\chi} \mathcal{A}^{\beta \chi}_{\beta} - 2 \beta_{1}^{*} \partial_{\beta} f^{\alpha \beta}_{\alpha} \partial_{\chi} f^{\alpha \beta}_{\alpha} - 2 \beta_{1}^{*} \partial_{\beta} f^{\alpha}_{\alpha} \partial_{\chi} f^{\alpha \beta}_{\alpha} - \alpha_{0}^{*} f^{\alpha}_{\alpha} \partial_{\chi} \mathcal{A}^{\beta \chi}_{\beta} - \alpha_{0}^{*} f^{\alpha \chi}_{\alpha} \partial_{\chi} \mathcal{A}^{\chi}_{\beta} - \alpha_{0}^{*} \partial_{\chi} \mathcal{A}^{\chi}_{\alpha} \partial_{\chi} \mathcal{A}^{\chi}_{\alpha} - \alpha_{0}^{*} \partial_{\chi} \mathcal{A}^{\chi}_{\alpha} \partial_{\chi} \mathcal{A}^{\chi}_{\alpha}$

#### -<sup>0</sup>\**,*#∥

**PSALTer results panel** 



# Saturated propagator

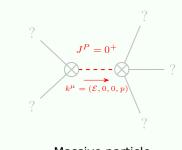


 $^{2^{-}}\sigma^{\parallel} \uparrow^{\alpha\beta\chi}$ 

### **Source constraints**

Spin-parity form	Covariant form	Multiplicities
° τ == 0	$\partial_{\beta}\partial_{\alpha}\tau \left(\Delta + \mathcal{K}\right)^{\alpha\beta} = 0$	1
$\frac{2 i k \cdot 1 - \sigma^{\perp}^{\alpha} + 1 - \tau^{\perp}^{\alpha} == 0}{2 i k \cdot 1 - \sigma^{\perp}}$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}{}_{\tau}\left(\Delta+\mathcal{K}\right)^{\beta\chi} == \partial_{\chi}\partial^{\chi}\partial_{\beta\tau}\left(\Delta+\mathcal{K}\right)^{\alpha\beta} + 2\partial_{\sigma}\partial^{\delta}\partial_{\chi}\partial_{\beta}\sigma^{\beta\alpha\chi}$	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
$i k \cdot 1^+ \sigma^{\perp} \alpha^{\beta} + 1^+ \tau^{\parallel} \alpha^{\beta} = 0$	$\partial_{\chi}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\beta\chi} + \partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\chi\alpha} + \partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\beta} + 2\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\chi\beta\delta} + 2\partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\chi\alpha\beta} = \partial_{\chi}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\chi\beta} + \partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\chi} + \partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\beta\alpha} + 2\partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\chi\alpha\delta} = \partial_{\chi}\partial^{\alpha}\tau\left(\Delta+\mathcal{K}\right)^{\chi\beta} + \partial_{\chi}\partial^{\beta}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\chi} + \partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\alpha\chi} + \partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{\chi\alpha} + \partial_{\chi}\partial^{\chi}\tau\left(\Delta+\mathcal{K}\right)^{$	3
Total expected gauge generators:		

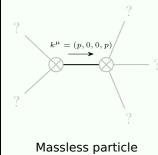
## Massive spectrum



Massive particle

	Pole residue:	$\left \frac{1}{\alpha_{\cdot}} + \frac{1}{\alpha_{\cdot}} - \frac{1}{4\beta_{\cdot}} \right  > 0$
	Square mass:	$-\frac{\binom{\alpha. (\alpha4 \beta.)}{0  0  1}}{8 \alpha. \beta.} > 0$
	Spin:	0
	Parity:	Even

# Massless spectrum



#### l assiess partier

Pole residue:  $\frac{p^2}{\alpha_0} > 0$ Polarisations: 2

# **Unitarity conditions**

 $\alpha_{\bullet} > 0 \&\& \alpha_{\bullet} > 0 \&\& \left(\beta_{\bullet} < 0 \parallel \beta_{\bullet} > \frac{\alpha_{\bullet}}{4}\right)$