PSALTer results panel

$$\mathcal{S} == \iiint\int (\underset{3}{\alpha_{\cdot}}\, \mathcal{B}_{\alpha}\, \mathcal{B}^{\alpha} + \mathcal{B}^{\alpha}\, \mathcal{T}_{\alpha} + \underset{2}{\alpha_{\cdot}}\, \partial_{\alpha}\mathcal{B}^{\alpha}\partial_{\beta}\mathcal{B}^{\beta} + \underset{1}{\alpha_{\cdot}}\, \partial_{\beta}\mathcal{B}_{\alpha}\partial^{\beta}\mathcal{B}^{\alpha})[t, x, y, z]\, dz\, dy\, dx\, dt$$

Wave operator

$$\begin{array}{c|cc} & \overset{0^+}{\cdot}\mathcal{B} & \\ \overset{0^+}{\cdot}\mathcal{B}\dagger & \underset{3}{\alpha_{\cdot}} + (\underset{1}{\alpha_{\cdot}} + \underset{2}{\alpha_{\cdot}})\, k^2 & \overset{1^-}{\cdot}\mathcal{B}_{\alpha} \\ \overset{1^-}{\cdot}\mathcal{B}\dagger^{\alpha} & & \underset{3}{\alpha_{\cdot}} + \underset{1}{\alpha_{\cdot}}\, k^2 \end{array}$$

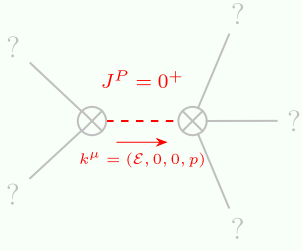
Saturated propagator

$$\begin{array}{c|cc} & \overset{0^+}{\cdot}\mathcal{T} & \\ \overset{0^+}{\cdot}\mathcal{T}\dagger & \frac{1}{\underset{3}{\alpha_{\cdot}}+(\underset{1}{\alpha_{\cdot}}+\underset{2}{\alpha_{\cdot}})\, k^2} & \overset{1^-}{\cdot}\mathcal{T}_{\alpha} \\ \overset{1^-}{\cdot}\mathcal{T}\dagger^{\alpha} & & \frac{1}{\underset{3}{\alpha_{\cdot}}+\underset{1}{\alpha_{\cdot}}\, k^2} \end{array}$$

Source constraints

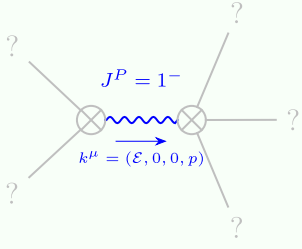
(No source constraints)

Massive spectrum



Massive particle

Pole residue:	$\frac{1}{\underset{1}{\alpha_{\cdot}}+\underset{2}{\alpha_{\cdot}}} > 0$
Square mass:	$-\frac{\underset{3}{\alpha_{\cdot}}}{\underset{1}{\alpha_{\cdot}}+\underset{2}{\alpha_{\cdot}}} > 0$
Spin:	0
Parity:	Even



Massive particle

Pole residue:	$-\frac{1}{\underset{1}{\alpha_{\cdot}}} > 0$
Square mass:	$-\frac{\underset{3}{\alpha_{\cdot}}}{\underset{1}{\alpha_{\cdot}}} > 0$
Spin:	1
Parity:	Odd

Massless spectrum

(No particles)

Unitarity conditions

(Demonstrably impossible)