PSALTer results panel

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

Wave operator

$$\begin{array}{c|c|c} & {}^{0^+}\mathcal{B} & \\ \hline {}^{0^+}\mathcal{B} \dagger & \alpha_{3} + \left(\alpha_{1} + \alpha_{2} \right) k^2 & {}^{1^-}\mathcal{B}_{\alpha} \\ \hline & {}^{1^-}\mathcal{B} \dagger^{\alpha} & \alpha_{3} + \alpha_{1} k^2 \end{array}$$

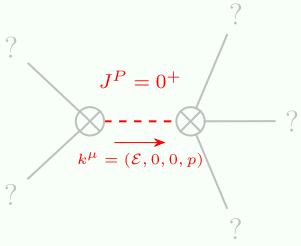
Saturated propagator

$$\begin{array}{c|c|c} & {}^{0^+}\mathcal{J} & \\ \hline {}^{0^+}\mathcal{J} \dagger & \frac{1}{\alpha_{3} + \left(\alpha_{1} + \alpha_{2} \right) k^2} & {}^{1^-}\mathcal{J}_{\alpha} \\ \hline & {}^{1^-}\mathcal{J} \dagger^{\alpha} & \frac{1}{\alpha_{3} + \alpha_{1} k^2} \end{array}$$

Source constraints

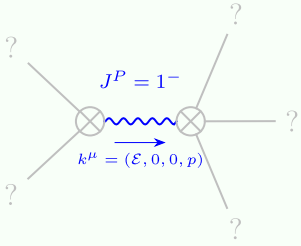
(No source constraints)

Massive spectrum



Massive particle

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



Massive particle

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

Massless spectrum

(No particles)

Unitarity conditions

(Demonstrably impossible)