PSALTer results panel

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

Wave operator

	$0^{+}_{.}\mathcal{B}$	
$0^{+}_{.}\mathcal{B}\dagger$	$(\alpha_{1}. + \alpha_{2}.)\,k^2$	$1^{-}_{.}\mathcal{B}_{\alpha}$
	$1^{-}_{.}\mathcal{B}\dagger^{\alpha}$	$\alpha_{1}.\,k^2$

Saturated propagator

	$0^{+}_{.}\mathcal{J}$	
$0^{+}_{.}\mathcal{J}\dagger$	$\frac{1}{(\alpha_{1}.+\alpha_{2}.)\,k^2}$	$1^{-}_{.}\mathcal{J}_{\alpha}$
	$1^{-}_{.}\mathcal{J}\dagger^{\alpha}$	$\frac{1}{\alpha_{1}.\,k^2}$

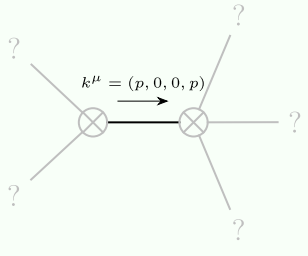
Source constraints

(No source constraints)

Massive spectrum

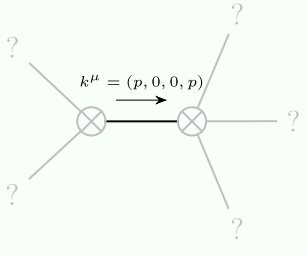
(No particles)

Massless spectrum



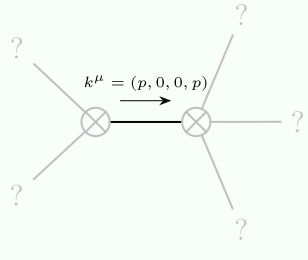
Massless particle

Pole residue:	$-\frac{1}{\alpha_{1}.} - \frac{1}{\alpha_{1}.+\alpha_{2}.} > 0$
Polarisations:	1



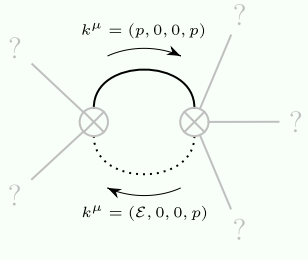
Massless particle

Pole residue:	$-\frac{1}{\alpha_{1}.} > 0$
Polarisations:	2



Massless particle

Pole residue:	$\frac{1}{\alpha_{1}.} + \frac{1}{\alpha_{1}.+\alpha_{2}.} > 0$
Polarisations:	1



Quartic pole

Pole residue:	$0 < -\frac{\alpha_{2}.\,p^2}{\alpha_{1}.\,(\alpha_{1}.+\alpha_{2}.)}$ && $-\frac{\alpha_{2}.\,p^2}{\alpha_{1}.\,(\alpha_{1}.+\alpha_{2}.)} > 0$
Polarisations:	1

Unitarity conditions

(Demonstrably impossible)