PSALTer results panel

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

Wave operator

	$0^{+}_{.}h^{\perp}$	$0^{+}_{.}h^{\parallel}$	$1^{-}_{.}h^{\perp}{}_{\alpha}$	$2^{+}_{.}h^{\parallel}{}_{\alpha\beta}$
$0^{+}_{.}h^{\perp}\,\dagger$	$(\alpha_{.}{}_{1} - \alpha_{.}{}_{2})\,k^2$	$\frac{1}{2}\,\sqrt{3}\,(\alpha_{.}{}_{1} - \alpha_{.}{}_{2})\,k^2$		
$0^{+}_{.}h^{\parallel}\,\dagger$	$\frac{1}{2}\,\sqrt{3}\,(\alpha_{.}{}_{1} - \alpha_{.}{}_{2})\,k^2$	$\alpha_{.}{}_{1}\,k^2$		
$1^{-}_{.}h^{\perp}\,\dagger^{\alpha}$			0	
$2^{+}_{.}h^{\parallel}\,\dagger^{\alpha\beta}$				$-\frac{\alpha_{.}{}_{1}\,k^2}{2}$

Saturated propagator

	$0^{+}_{.}\mathcal{T}^{\perp}$	$0^{+}_{.}\mathcal{T}^{\parallel}$	$1^{-}_{.}\mathcal{T}^{\perp}{}_{\alpha}$	$2^{+}_{.}\mathcal{T}^{\parallel}{}_{\alpha\beta}$
$0^{+}_{.}\mathcal{T}^{\perp}\,\dagger$	$\frac{4\,\alpha_{.}{}_{1}}{(\alpha_{.}{}_{1}-\alpha_{.}{}_{2})\,(\alpha_{.}{}_{1}+3\,\alpha_{.}{}_{2})\,k^2}$	$-\frac{2\,\sqrt{3}}{(\alpha_{.}{}_{1}+3\,\alpha_{.}{}_{2})\,k^2}$		
$0^{+}_{.}\mathcal{T}^{\parallel}\,\dagger$	$-\frac{2\,\sqrt{3}}{(\alpha_{.}{}_{1}+3\,\alpha_{.}{}_{2})\,k^2}$	$\frac{4}{(\alpha_{.}{}_{1}+3\,\alpha_{.}{}_{2})\,k^2}$		
$1^{-}_{.}\mathcal{T}^{\perp}\,\dagger^{\alpha}$			0	
$2^{+}_{.}\mathcal{T}^{\parallel}\,\dagger^{\alpha\beta}$				$-\frac{2}{\alpha_{.}{}_{1}\,k^2}$

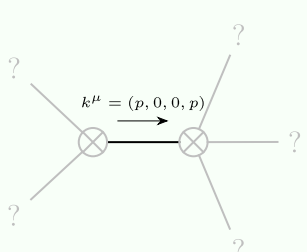
Source constraints

Spin-parity form	Covariant form	Multiplicities
$1^{-}_{.}\mathcal{T}^{\perp\,\alpha} == 0$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\mathcal{T}^{\beta\chi} == \partial_{\chi}\partial^{\chi}\partial_{\beta}\mathcal{T}^{\alpha\beta}$	3
Total expected gauge generators:		3

Massive spectrum

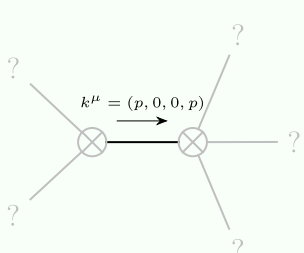
(No particles)

Massless spectrum



Massless particle

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



Massless particle

Pole residue:	$\frac{(\alpha_{.}{}_{1}^{2} - 2\,\alpha_{.}{}_{1}\,\alpha_{.}{}_{2} + 5\,\alpha_{.}{}_{2}^{2})\,p^2}{\alpha_{.}{}_{1}\,(\alpha_{.}{}_{1} - \alpha_{.}{}_{2})\,(\alpha_{.}{}_{1} + 3\,\alpha_{.}{}_{2})} > 0$
Polarisations:	1

Unitarity conditions

$$\alpha_{.}{}_{1} < 0\ \&\&\ (\alpha_{.}{}_{2} < \alpha_{.}{}_{1}\ ||\ \alpha_{.}{}_{2} > -\frac{\alpha_{.}{}_{1}}{3})$$