PSALTer results panel

$S ==$

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

Wave operator

	$\overset{0}{\cdot}{}^{+}\varphi$	$\overset{0}{\cdot}{}^{+}h^{\perp}$	$\overset{0}{\cdot}{}^{+}h^{\parallel}$	$\overset{1}{\cdot}{}^{-}h^{\perp}{}_{\alpha}$	$\overset{2}{\cdot}{}^{+}h^{\parallel}{}_{\alpha\beta}$
$\overset{0}{\cdot}{}^{+}\varphi\,\dagger$	$\alpha_{2}\,k^{2}$	0	0		
$\overset{0}{\cdot}{}^{+}h^{\perp}\,\dagger$	0	0	0		
$\overset{0}{\cdot}{}^{+}h^{\parallel}\,\dagger$	0	0	$\alpha_{1}\,k^{2}$		
$\overset{1}{\cdot}{}^{-}h^{\perp}\,\dagger^{\alpha}$				0	
$\overset{2}{\cdot}{}^{+}h^{\parallel}\,\dagger^{\alpha\beta}$					$-\frac{\alpha_{1}\,k^{2}}{2}$

Saturated propagator

	$\overset{0}{\cdot}{}^{+}\rho$	$\overset{0}{\cdot}{}^{+}\mathcal{T}^{\perp}$	$\overset{0}{\cdot}{}^{+}\mathcal{T}^{\parallel}$	$\overset{1}{\cdot}{}^{-}\mathcal{T}^{\perp}{}_{\alpha}$	$\overset{2}{\cdot}{}^{+}\mathcal{T}^{\parallel}{}_{\alpha\beta}$
$\overset{0}{\cdot}{}^{+}\rho\,\dagger$	$\frac{1}{\alpha_{2}\,k^{2}}$	0	0		
$\overset{0}{\cdot}{}^{+}\mathcal{T}^{\perp}\,\dagger$	0	0	0		
$\overset{0}{\cdot}{}^{+}\mathcal{T}^{\parallel}\,\dagger$	0	0	$\frac{1}{\alpha_{1}\,k^{2}}$		
$\overset{1}{\cdot}{}^{-}\mathcal{T}^{\perp}\,\dagger^{\alpha}$				0	
$\overset{2}{\cdot}{}^{+}\mathcal{T}^{\parallel}\,\dagger^{\alpha\beta}$					$-\frac{2}{\alpha_{1}\,k^{2}}$

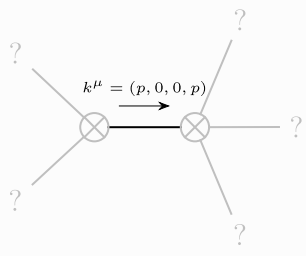
Source constraints

Spin-parity form	Covariant form	Multiplicities
$\overset{0}{\cdot}{}^{+}\mathcal{T}^{\perp} == 0$	$\partial_{\beta}\partial_{\alpha}\mathcal{T}^{\alpha\beta} == 0$	1
$\overset{1}{\cdot}{}^{-}\mathcal{T}^{\perp\,\alpha} == 0$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\mathcal{T}^{\beta\chi} == \partial_{\chi}\partial^{\chi}\partial_{\beta}\mathcal{T}^{\alpha\beta}$	3
Total expected gauge generators:		4

Massive spectrum

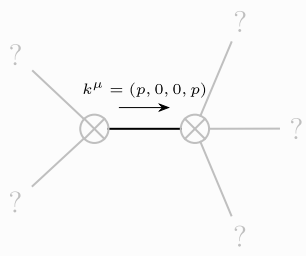
(There are no massive particles)

Massless spectrum



Massless particle

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



Massless particle

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

Gauge symmetries

(Not yet implemented in PSALTer)

Unitarity conditions

$\alpha_{1} < 0 \;\&\&\; \alpha_{2} > 0$

Validity assumptions

(Not yet implemented in PSALTer)