PSALTer results panel

$$\mathcal{S} == \int\int\int\int \left(\rho\, \varphi + h^{\alpha\beta}\, \mathcal{T}_{\alpha\beta} + \alpha_2\, \partial_\alpha \varphi\, \partial^\alpha \varphi + \frac{1}{2}\, \alpha_1 \left(\partial_\beta h^\chi{}_\chi\, \partial^\beta h^\alpha{}_\alpha + 2\, \partial_\alpha h^{\alpha\beta}\, \partial_\chi h_\beta{}^\chi - 2\, \partial^\beta h^\alpha{}_\alpha\, \partial_\chi h_\beta{}^\chi - \partial_\chi h_{\alpha\beta}\, \partial^\chi h^{\alpha\beta} \right) \right) [t, x, y, z]\, dt\, dx\, dy\, dz$$

Wave operator

	$0^+ \cdot \varphi$	$0^+ \cdot h^\perp$	$0^+ \cdot h^\parallel$	$1^- \cdot h^\perp{}_\alpha$	$2^+ \cdot h^\parallel{}_{\alpha\beta}$
$0^+ \cdot \varphi\, \dagger$	$\alpha_2 \cdot k^2$	0	0		
$0^+ \cdot h^\perp\, \dagger$	0	0	0		
$0^+ \cdot h^\parallel\, \dagger$	0	0	$\alpha_1 \cdot k^2$		
$1^- \cdot h^\perp\, \dagger^\alpha$				0	
$2^+ \cdot h^\parallel\, \dagger^{\alpha\beta}$					$-\frac{\alpha_1 \cdot k^2}{2}$

Saturated propagator

	$0^+ \cdot \rho$	$0^+ \cdot \mathcal{T}^\perp$	$0^+ \cdot \mathcal{T}^\parallel$	$1^- \cdot \mathcal{T}^\perp{}_\alpha$	$2^+ \cdot \mathcal{T}^\parallel{}_{\alpha\beta}$
$0^+ \cdot \rho\, \dagger$	$\frac{1}{\alpha_2 \cdot k^2}$	0	0		
$0^+ \cdot \mathcal{T}^\perp\, \dagger$	0	0	0		
$0^+ \cdot \mathcal{T}^\parallel\, \dagger$	0	0	$\frac{1}{\alpha_1 \cdot k^2}$		
$1^- \cdot \mathcal{T}^\perp\, \dagger^\alpha$				0	
$2^+ \cdot \mathcal{T}^\parallel\, \dagger^{\alpha\beta}$					$-\frac{2}{\alpha_1 \cdot k^2}$

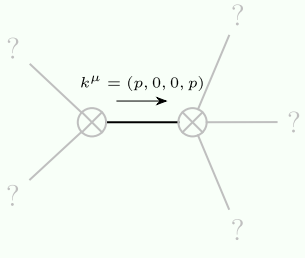
Source constraints

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

Massive spectrum

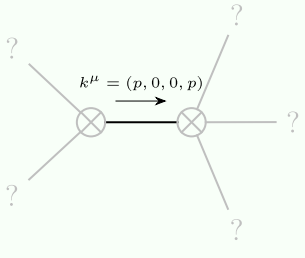
(No particles)

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

Unitarity conditions

$\alpha_1 < 0$ && $\alpha_2 > 0$