PSALTer results panel

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

Wave operator

	$\overset{0^+}{\bullet}h^\perp$	$\overset{0^+}{\bullet}h^\parallel$		
$\overset{0^+}{\bullet}h^\perp$ †	$\frac{1}{2}\left(-\alpha_1+\alpha_2\right)k^2$	$\frac{1}{2}\sqrt{3}\left(-\alpha_1+\alpha_2\right)k^2$		
$\overset{0^+}{\bullet}h^\parallel$ †	$\frac{1}{2}\sqrt{3}\left(-\alpha_1+\alpha_2\right)k^2$	$-\frac{1}{2}\left(\alpha_1-3\alpha_2\right)k^2$	$\overset{1^-}{\bullet}h^\perp_{\ \alpha}$	
$\overset{1^-}{\bullet}h^\perp$ †$^\alpha$			0	$\overset{2^+}{\bullet}h^\parallel_{\ \alpha\beta}$
$\overset{2^+}{\bullet}h^\parallel$ †$^{\alpha\beta}$				$-\frac{\alpha_1 k^2}{2}$

Saturated propagator

	$\overset{0^+}{\bullet}\mathcal{T}^\perp$	$\overset{0^+}{\bullet}\mathcal{T}^\parallel$		
$\overset{0^+}{\bullet}\mathcal{T}^\perp$ †	$\frac{\alpha_1-3\alpha_2}{\alpha_1\left(\alpha_1-\alpha_2\right)k^2}$	$-\frac{\sqrt{3}}{\alpha_1 k^2}$		
$\overset{0^+}{\bullet}\mathcal{T}^\parallel$ †	$-\frac{\sqrt{3}}{\alpha_1 k^2}$	$\frac{1}{\alpha_1 k^2}$	$\overset{1^-}{\bullet}\mathcal{T}^\perp_{\ \alpha}$	
$\overset{1^-}{\bullet}\mathcal{T}^\perp$ †$^\alpha$			0	$\overset{2^+}{\bullet}\mathcal{T}^\parallel_{\ \alpha\beta}$
$\overset{2^+}{\bullet}\mathcal{T}^\parallel$ †$^{\alpha\beta}$				$-\frac{2}{\alpha_1 k^2}$

Source constraints

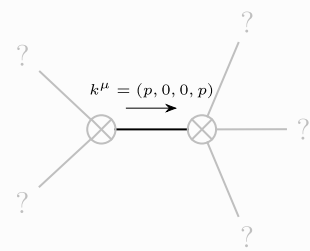| Spin-parity form	Covariant form	Multiplicities
$\overset{1^-}{\bullet}\mathcal{T}^{\perp\,\alpha} == 0$	$\partial_\chi \partial_\beta \partial^\alpha \mathcal{T}^{\beta\chi} == \partial_\chi \partial^\chi \partial_\beta \mathcal{T}^{\alpha\beta}$	3
Total expected gauge generators:		3

Massive spectrum

(There are no massive particles)

Massless spectrum
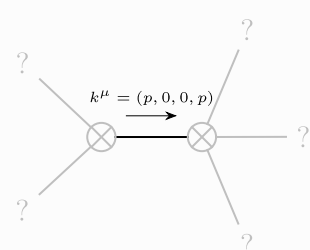
Massless particle

Pole residue:	$\frac{p^2}{-\alpha_1+\alpha_2} > 0$
Polarisations:	1

Massless particle

Pole residue:	$-\frac{p^2}{\alpha_1} > 0$
Polarisations:	2

Gauge symmetries

(Not yet implemented in PSALTer)

Unitarity conditions

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

Validity assumptions

(Not yet implemented in PSALTer)