PSALTer results panel

$$S == \int\int\int\int \left(\alpha_{2} \, h_{\alpha\beta} \, h^{\alpha\beta} - \alpha_{3} \, h^{\alpha}{}_{\alpha} \, h^{\beta}{}_{\beta} + h^{\alpha\beta} \, \mathcal{T}_{\alpha\beta} + \frac{1}{2} \, \alpha_{1} \left(\partial_{\beta} h^{\chi}{}_{\chi} \, \partial^{\beta} h^{\alpha}{}_{\alpha} + 2 \, \partial_{\alpha} h^{\alpha\beta} \, \partial_{\chi} h_{\beta}{}^{\chi} - 2 \, \partial^{\beta} h^{\alpha}{}_{\alpha} \, \partial_{\chi} h_{\beta}{}^{\chi} - \partial_{\chi} h_{\alpha\beta} \, \partial^{\chi} h^{\alpha\beta}\right)\right)[t, x, y, z] \, dt \, dx \, dy \, dz$$

Wave operator

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

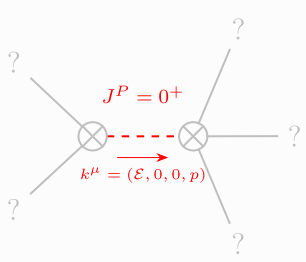
Saturated propagator

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

Source constraints

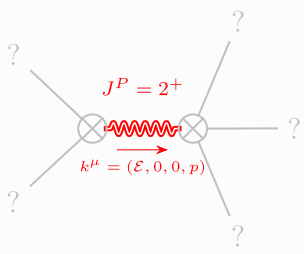
(There are no source constraints and no gauge symmetries)

Massive spectrum



Massive particle

Pole residue:	$\frac{\alpha_{2}^2 - 2\,\alpha_{2}\,\alpha_{3} + 4\,\alpha_{3}^2}{\alpha_{1}\,(\alpha_{2}-\alpha_{3})^2} > 0$
Square mass:	$-\frac{\alpha_{2}\,(\alpha_{2}-4\,\alpha_{3})}{\alpha_{1}\,(\alpha_{2}-\alpha_{3})} > 0$
Spin:	0
Parity:	Even



Massive particle

Pole residue:	$-\frac{2}{\alpha_{1}} > 0$
Square mass:	$\frac{2\,\alpha_{2}}{\alpha_{1}} > 0$
Spin:	2
Parity:	Even

Massless spectrum

(There are no massless particles)

Gauge symmetries

(Not yet implemented in PSALTer)

Unitarity conditions

(Unitarity is demonstrably impossible)

Validity assumptions

(Not yet implemented in PSALTer)