PSALTer results panel

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

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}	
$2^+ \cdot h^{\parallel} \dagger^{\alpha\beta}$				$\alpha_{2} - \frac{\alpha_{1} k^2}{2}$

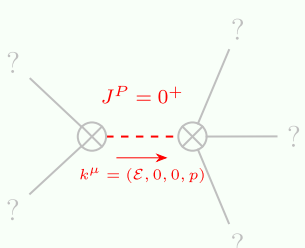
Saturated propagator

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

Source constraints

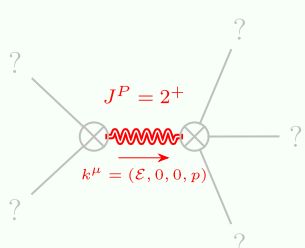
(No source constraints)

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

(No particles)

Unitarity conditions

(Demonstrably impossible)