

PSALTer results panel

$$S==\int\int\int\int(\alpha_{\cdot 2}(h_{\alpha\beta}h^{\alpha\beta}-h^{\alpha}_{\cdot\alpha}h^{\beta}_{\cdot\beta})+h^{\alpha\beta}\mathcal{T}_{\alpha\beta}+\frac{1}{2}\alpha_{\cdot 1}(\partial_{\beta}h^{\chi}_{\cdot\chi}\partial^{\beta}h^{\alpha}_{\cdot\alpha}+2\partial_{\alpha}h^{\alpha\beta}\partial_{\chi}h^{\chi}_{\cdot\beta}-2\partial^{\beta}h^{\alpha}_{\cdot\alpha}\partial_{\chi}h^{\chi}_{\cdot\beta}-\partial_{\chi}h_{\alpha\beta}\partial^{\chi}h^{\alpha\beta}))[t,\chi,y,z]dzd\chi dydxdt$$

Wave operator

$0_{\cdot}^{+}h^{\perp}$

$0_{\cdot}^{+}h^{\parallel}$

$0_{\cdot}^{+}h^{\perp}\dagger$

0

$-\sqrt{3}\alpha_{\cdot 2}$

$-\sqrt{3}\alpha_{\cdot 2}$

$-2\alpha_{\cdot 2}+\alpha_{\cdot 1}k^2$

$1_{\cdot}^{-}h^{\perp\alpha}$

$1_{\cdot}^{-}h^{\perp\dagger\alpha}$

$2_{\cdot}^{+}h^{\parallel\alpha\beta}$

$2_{\cdot}^{+}h^{\parallel\dagger\alpha\beta}$

$\alpha_{\cdot 2}$

$\alpha_{\cdot 2}-\frac{\alpha_{\cdot 1}k^2}{2}$

Saturated propagator

$0_{\cdot}^{+}\mathcal{T}^{\perp}$

$0_{\cdot}^{+}\mathcal{T}^{\parallel}$

$0_{\cdot}^{+}\mathcal{T}^{\perp}\dagger$

$\frac{2\alpha_{\cdot 2}-\alpha_{\cdot 1}k^2}{3\alpha_{\cdot 2}^2}$ $-\frac{1}{\sqrt{3}\alpha_{\cdot 2}}$

$-\frac{1}{\sqrt{3}\alpha_{\cdot 2}}$

0

$1_{\cdot}^{-}\mathcal{T}^{\perp\alpha}$

$1_{\cdot}^{-}\mathcal{T}^{\perp\dagger\alpha}$

$2_{\cdot}^{+}\mathcal{T}^{\parallel\alpha\beta}$

$2_{\cdot}^{+}\mathcal{T}^{\parallel\dagger\alpha\beta}$

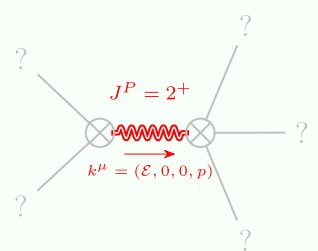
$\frac{1}{\alpha_{\cdot 2}}$

$\frac{1}{\alpha_{\cdot 2}-\frac{\alpha_{\cdot 1}k^2}{2}}$

Source constraints

(No source constraints)

Massive spectrum



Massive particle

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

Massless spectrum

(No particles)

Unitarity conditions

$$\alpha_{\cdot 1} < 0 \ \&\& \ \alpha_{\cdot 2} < 0$$