

PSALTer results panel

$$S==\iiint(\alpha_2 h_{\alpha\beta} h^{\alpha\beta}-\alpha_3 h^\alpha_\alpha h^\beta_\beta+h^{\alpha\beta}\mathcal{T}_{\alpha\beta}+\frac{1}{2}\alpha_1(\partial_\beta h^\chi_\chi\partial^\beta h^\alpha_\alpha+2\partial_\alpha h^{\alpha\beta}\partial_\chi h^\chi_\beta-2\partial^\beta h^\alpha_\alpha\partial_\chi h^\chi_\beta-\partial_\chi h_{\alpha\beta}\partial^\chi h^{\alpha\beta}))[t,x,y,z]dzd\chi dydxdt$$

Wave operator

0^+h^\perp

0^+h^\parallel

$0^+h^\perp\dagger$

$0^+h^\parallel\dagger$

$\alpha_2-\alpha_3$

$-\sqrt{3}\alpha_3$

$-\sqrt{3}\alpha_3$

$\alpha_2-3\alpha_3+\alpha_1k^2$

$1^-h^\perp_\alpha$

$1^-h^\perp\dagger^\alpha$

α_2

$2^+h^\parallel_{\alpha\beta}$

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

$\alpha_2-\frac{\alpha_1k^2}{2}$

Saturated propagator

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

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

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

$0^+\mathcal{T}^\parallel\dagger$

$\frac{1}{\alpha_2+\alpha_3(-1-\frac{3\alpha_3}{\alpha_2-3\alpha_3+\alpha_1k^2})}$

$\frac{\sqrt{3}\alpha_3}{\alpha_2(\alpha_2-4\alpha_3)+\alpha_1(\alpha_2-\alpha_3)k^2}$

$\frac{\sqrt{3}\alpha_3}{\alpha_2(\alpha_2-4\alpha_3)+\alpha_1(\alpha_2-\alpha_3)k^2}$

$\frac{1}{\frac{\alpha_2(\alpha_2-4\alpha_3)}{\alpha_2-\alpha_3}+\alpha_1k^2}$

$1^-\mathcal{T}^\perp_\alpha$

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

$\frac{1}{\alpha_2}$

$2^+\mathcal{T}^\parallel_{\alpha\beta}$

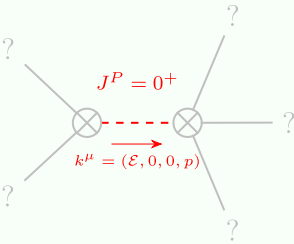
$2^+\mathcal{T}^\parallel\dagger^{\alpha\beta}$

$\frac{1}{\alpha_2-\frac{\alpha_1k^2}{2}}$

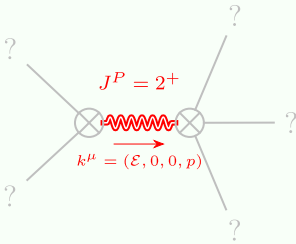
Source constraints

(No source constraints)

Massive spectrum



Massive particle



Massive particle

Pole residue:	$\frac{\alpha_2^2-2\alpha_2\alpha_3+\alpha_3^2}{\alpha_1(\alpha_2-\alpha_3)^2}>0$
Square mass:	$-\frac{\alpha_2(\alpha_2-4\alpha_3)}{\alpha_1(\alpha_2-\alpha_3)}>0$
Spin:	0
Parity:	Even

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)