

PSALTer results panel

Wave operator and propagator

Spin-parity form	Covariant form	Multiplicities
#2 $0^+ \chi == 0$	$\partial_\beta \partial_\alpha \chi^{\alpha\beta} == 0$	1
Total expected gauge generators:		1

$\begin{matrix} \#1 \\ 1^+ \end{matrix} \psi +^\alpha$

$\begin{matrix} \#1 \\ 1^+ \end{matrix} \psi_\alpha$ $-\frac{k^2}{8\kappa}$

$\begin{matrix} \#1 \\ 1^+ \end{matrix} \chi +^\alpha$

$\begin{matrix} \#1 \\ 1^+ \end{matrix} \chi_\alpha$ $-\frac{8\kappa}{k^2}$

$\begin{matrix} \#1 \\ 0^+ \end{matrix} \psi +$ $\begin{matrix} \#2 \\ 0^+ \end{matrix} \psi +$

$\begin{matrix} \#1 \\ 0^+ \end{matrix} \psi +$ $\begin{matrix} \#2 \\ 0^+ \end{matrix} \psi +$

$\begin{matrix} \#1 \\ 2^+ \end{matrix} \psi +^\alpha\beta$

$\begin{matrix} \#1 \\ 2^+ \end{matrix} \psi_{\alpha\beta}$ $-\frac{k^2}{4\kappa}$

$\begin{matrix} \#1 \\ 0^+ \end{matrix} \chi +$ $\begin{matrix} \#2 \\ 0^+ \end{matrix} \chi +$

$\begin{matrix} \#1 \\ 0^+ \end{matrix} \chi +$ $\begin{matrix} \#2 \\ 0^+ \end{matrix} \chi +$

$\begin{matrix} \#1 \\ 2^+ \end{matrix} \chi +^\alpha\beta$

$\begin{matrix} \#1 \\ 2^+ \end{matrix} \chi_{\alpha\beta}$ $-\frac{4\kappa}{k^2}$

$$S == \iiint \psi^{\alpha\beta} \chi_{\alpha\beta} + \frac{(\partial_\nu \psi_\mu \bar{p}^\nu \partial_\rho \psi_\mu \bar{p}^\rho) \partial^\rho \psi^\mu{}_\nu}{4\kappa} [t, x, y, z] d z d y d x$$

Massive and massless spectra

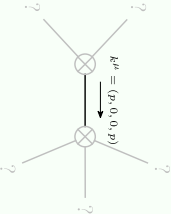
Massless particle

Pole residue:

$-\kappa > 0$

Polarisations:

5



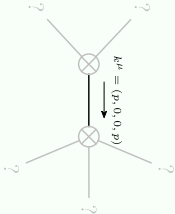
Massless particle

Pole residue:

$\kappa > 0$

Polarisations:

2



(No particles)

Unitarity conditions

