PSALTer results panel

$$S = \iiint \left(\frac{1}{4} \left(-2\,a_0\,\mathcal{A}_{\alpha\chi\beta}\,\mathcal{A}^{\alpha\beta\chi} + 2\,a_0\,\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}\,\mathcal{A}^{\chi}{}_{\beta\chi} + 4\,\mathcal{A}^{\alpha\beta\chi}\,\mathcal{W}_{\alpha\beta\chi} + 4\,\mathcal{T}^{\alpha\beta}\,h_{\alpha\beta} + 2\,a_0\,h^{\alpha\beta}\,\partial_\beta\mathcal{A}_{\alpha}{}^{\chi}{}_{\chi} - \right. \right.$$
$$\left. \left. 2\,a_0\,h^{\alpha\beta}\,\partial_\chi\mathcal{A}_{\alpha}{}_{\beta}{}^{\chi} - a_0\,h^{\alpha}{}_{\alpha}\,\partial_\chi\mathcal{A}^{\beta}{}_{\beta}{}^{\chi} + a_0\,h^{\alpha}{}_{\alpha}\,\partial_\chi\mathcal{A}_{\beta}{}^{\beta\chi} - h_1\,\partial_\beta\mathcal{A}_{\chi}{}^{\delta}{}_{\delta}\,\partial^\chi\mathcal{A}_{\alpha}{}^{\alpha\beta} - h_1\,\partial_\chi\mathcal{A}_{\beta}{}^{\delta}{}_{\delta}\,\partial^\chi\mathcal{A}_{\alpha}{}^{\alpha\beta} - 2\,h_1\,\partial_\beta\mathcal{A}^{\alpha\beta\chi}\,\partial_\delta\mathcal{A}_{\alpha}{}^{\delta}{}_{\chi} + 4\,h_1\,\partial^\chi\mathcal{A}_{\alpha}{}^{\alpha\beta}\,\partial_\delta\mathcal{A}_{\beta}{}^{\delta}{}_{\chi} \right) \right)[t,x,y,z]\,dz\,dy\,dx\,dt$$
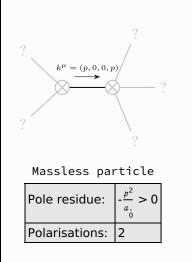
Wave operator

Saturated propagator

Source constraints

Spin-parity form	Covariant form	Multiplicities
$k\,{}^{0^+}\!\mathcal{W}_s{}^{\perp}\!t + 2\,i\,{}^{0^+}\!\mathcal{T}^{\perp} == 0$	$2\,\partial_\beta\partial_\alpha\mathcal{T}^{\alpha\beta} == \partial_\chi\partial_\beta\partial_\alpha\mathcal{W}^{\alpha\beta\chi}$	1
$2\,k\,{}^{1^-}\!\mathcal{W}_s{}^{\perp}\!h^{\alpha} + k\,{}^{1^-}\!\mathcal{W}_s{}^{\perp}\!t^{\alpha} + 6\,i\,{}^{1^-}\!\mathcal{T}^{\perp\alpha} == 0$	$2\,\partial_\chi\partial_\beta\partial^\alpha\mathcal{T}^{\beta\chi} + \partial_\delta\partial^\delta\partial_\chi\partial_\beta\mathcal{W}^{\beta\alpha\chi} == 2\,\partial_\chi\partial^\chi\partial_\beta\mathcal{T}^{\alpha\beta} + \partial_\delta\partial_\beta\partial_\beta\partial^\alpha\mathcal{W}^{\beta\chi\delta}$	3
Total expected gauge generators:		4

Massive spectrum

(There are no massive particles)

Massless spectrum

Massless particle

Pole residue:	$-\dfrac{p^2}{a_0} > 0$
Polarisations:	2

Gauge symmetries

(Not yet implemented in PSALTer)

Unitarity conditions

$a_0 < 0$

Validity assumptions

(Not yet implemented in PSALTer)