PSALTer results panel

$$\mathcal{S} == \int\int\int\int\left(\frac{1}{6}\left(6\,t_{.\,1}\,\mathcal{A}^{\alpha\,\prime}{}_{\alpha}\,\mathcal{A}_{\prime}{}^{\theta}{}_{\theta}+6\,\mathcal{A}^{\alpha\beta\chi}\,\sigma_{\alpha\beta\chi}+6\,f^{\alpha\beta}\,\tau\,(\Delta+\mathcal{K})_{\alpha\beta}-12\,t_{.\,1}\,\mathcal{A}_{\alpha}{}^{\theta}{}_{\theta}\,\partial_{\prime}f^{\alpha\,\prime}+12\,t_{.\,1}\,\mathcal{A}_{\prime}{}^{\theta}{}_{\theta}\,\partial^{\prime}f^{\alpha}{}_{\alpha}-6\,t_{.\,1}\,\partial_{\prime}f^{\theta}{}_{\theta}\,\partial^{\prime}f^{\alpha}{}_{\alpha}-6\,t_{.\,1}\,\partial_{\prime}f^{\alpha\,\prime}\,\partial_{\theta}f_{\alpha}{}^{\theta}+12\,t_{.\,1}\,\partial^{\prime}f^{\alpha}{}_{\alpha}\,\partial_{\theta}f_{\prime}{}^{\theta}+6\,r_{.\,5}\,\partial_{\prime}\mathcal{A}_{\theta}{}^{\kappa}{}_{\kappa}\,\partial^{\theta}\mathcal{A}^{\alpha\,\prime}{}_{\alpha}-6\,r_{.\,5}\,\partial_{\theta}\mathcal{A}_{\prime}{}^{\kappa}{}_{\kappa}\,\partial^{\theta}\mathcal{A}^{\alpha\,\prime}{}_{\alpha}+4\,t_{.\,1}\,\mathcal{A}_{\prime\theta\alpha}\,\partial^{\theta}f^{\alpha\,\prime}+4\,t_{.\,2}\,\mathcal{A}_{\prime\theta\alpha}\,\partial^{\theta}f^{\alpha\,\prime}-4\,t_{.\,1}\,\partial_{\alpha}f_{\prime\,\theta}\,\partial^{\theta}f^{\alpha\,\prime}+2\,t_{.\,2}\,\partial_{\alpha}f_{\prime\,\theta}\,\partial^{\theta}f^{\alpha\,\prime}-4\,t_{.\,1}\,\partial_{\alpha}f_{\theta\,\prime}\,\partial^{\theta}f^{\alpha\,\prime}-t_{.\,2}\,\partial_{\alpha}f_{\theta\,\prime}\,\partial^{\theta}f^{\alpha\,\prime}+2\,t_{.\,1}\,\partial_{\prime}f_{\alpha\theta}\,\partial^{\theta}f^{\alpha\,\prime}-t_{.\,2}\,\partial_{\prime}f_{\alpha\theta}\,\partial^{\theta}f^{\alpha\,\prime}+4\,t_{.\,1}\,\partial_{\theta}f_{\alpha\,\prime}\,\partial^{\theta}f^{\alpha\,\prime}+t_{.\,2}\,\partial_{\theta}f_{\alpha\,\prime}\,\partial^{\theta}f^{\alpha\,\prime}+2\,t_{.\,1}\,\partial_{\theta}f_{\prime\,\alpha}\,\partial^{\theta}f^{\alpha\,\prime}-t_{.\,2}\,\partial_{\theta}f_{\prime\,\alpha}\,\partial^{\theta}f^{\alpha\,\prime}+2\left(t_{.\,1}+t_{.\,2}\right)\mathcal{A}_{\alpha\,\prime\,\theta}\left(\mathcal{A}^{\alpha\,\prime\,\theta}+2\,\partial^{\theta}f^{\alpha\,\prime}\right)+2\,\mathcal{A}_{\alpha\theta\,\prime}\left(\left(t_{.\,1}-2\,t_{.\,2}\right)\mathcal{A}^{\alpha\,\prime\,\theta}+2\left(2\,t_{.\,1}-t_{.\,2}\right)\partial^{\theta}f^{\alpha\,\prime}\right)-6\,r_{.\,5}\,\partial_{\alpha}\mathcal{A}^{\alpha\,\prime\,\theta}\,\partial_{\kappa}\mathcal{A}_{\prime}{}^{\kappa}{}_{\theta}+12\,r_{.\,5}\,\partial^{\theta}\mathcal{A}^{\alpha\,\prime}{}_{\alpha}\,\partial_{\kappa}\mathcal{A}_{\prime}{}^{\kappa}{}_{\theta}+6\,r_{.\,5}\,\partial_{\alpha}\mathcal{A}^{\alpha\,\prime\,\theta}\,\partial_{\kappa}\mathcal{A}_{\theta}{}^{\kappa}{}_{\prime}-12\,r_{.\,5}\,\partial^{\theta}\mathcal{A}^{\alpha\,\prime}{}_{\alpha}\,\partial_{\kappa}\mathcal{A}_{\theta}{}^{\kappa}{}_{\prime}\right)\right)[t,\,x,\,y,\,z]\,dz\,dy\,dx\,dt$$

Wave operator

	$\overset{0}{\cdot}{}^{+}\mathcal{A}^{\parallel}$	$\overset{0}{\cdot}{}^{+}f^{\parallel}$	$\overset{0}{\cdot}{}^{+}f^{\perp}$	$\overset{0}{\cdot}{}^{-}\mathcal{A}^{\parallel}$
$\overset{0}{\cdot}{}^{+}\mathcal{A}^{\parallel}\,\dagger$	$-t_{.\,1}$	$i\,\sqrt{2}\,k\,t_{.\,1}$	0	0
$\overset{0}{\cdot}{}^{+}f^{\parallel}\,\dagger$	$-i\,\sqrt{2}\,k\,t_{.\,1}$	$-2\,k^2\,t_{.\,1}$	0	0
$\overset{0}{\cdot}{}^{+}f^{\perp}\,\dagger$	0	0	0	0
$\overset{0}{\cdot}{}^{-}\mathcal{A}^{\parallel}\,\dagger$	0	0	0	$t_{.\,2}$

	$\overset{1}{\cdot}{}^{+}\mathcal{A}^{\parallel}{}_{\alpha\beta}$	$\overset{1}{\cdot}{}^{+}\mathcal{A}^{\perp}{}_{\alpha\beta}$	$\overset{1}{\cdot}{}^{+}f^{\parallel}{}_{\alpha\beta}$	$\overset{1}{\cdot}{}^{-}\mathcal{A}^{\parallel}{}_{\alpha}$	$\overset{1}{\cdot}{}^{-}\mathcal{A}^{\perp}{}_{\alpha}$	$\overset{1}{\cdot}{}^{-}f^{\parallel}{}_{\alpha}$	$\overset{1}{\cdot}{}^{-}f^{\perp}{}_{\alpha}$
$\overset{1}{\cdot}{}^{+}\mathcal{A}^{\parallel}\,\dagger^{\alpha\beta}$	$\frac{1}{6}\left(6\,k^2\,r_{.\,5}+t_{.\,1}+4\,t_{.\,2}\right)$	$-\frac{t_{.\,1}-2\,t_{.\,2}}{3\,\sqrt{2}}$	$-\frac{i\,k\left(t_{.\,1}-2\,t_{.\,2}\right)}{3\,\sqrt{2}}$	0	0	0	0
$\overset{1}{\cdot}{}^{+}\mathcal{A}^{\perp}\,\dagger^{\alpha\beta}$	$-\frac{t_{.\,1}-2\,t_{.\,2}}{3\,\sqrt{2}}$	$\frac{t_{.\,1}+t_{.\,2}}{3}$	$\frac{1}{3}\,i\,k\left(t_{.\,1}+t_{.\,2}\right)$	0	0	0	0
$\overset{1}{\cdot}{}^{+}f^{\parallel}\,\dagger^{\alpha\beta}$	$\frac{i\,k\left(t_{.\,1}-2\,t_{.\,2}\right)}{3\,\sqrt{2}}$	$-\frac{1}{3}\,i\,k\left(t_{.\,1}+t_{.\,2}\right)$	$\frac{1}{3}\,k^2\left(t_{.\,1}+t_{.\,2}\right)$	0	0	0	0
$\overset{1}{\cdot}{}^{-}\mathcal{A}^{\parallel}\,\dagger^{\alpha}$	0	0	0	$k^2\,r_{.\,5}-\frac{t_{.\,1}}{2}$	$\frac{t_{.\,1}}{\sqrt{2}}$	0	$i\,k\,t_{.\,1}$
$\overset{1}{\cdot}{}^{-}\mathcal{A}^{\perp}\,\dagger^{\alpha}$	0	0	0	$\frac{t_{.\,1}}{\sqrt{2}}$	0	0	0
$\overset{1}{\cdot}{}^{-}f^{\parallel}\,\dagger^{\alpha}$	0	0	0	0	0	0	0
$\overset{1}{\cdot}{}^{-}f^{\perp}\,\dagger^{\alpha}$	0	0	0	$-i\,k\,t_{.\,1}$	0	0	0

	$\overset{2}{\cdot}{}^{+}\mathcal{A}^{\parallel}{}_{\alpha\beta}$	$\overset{2}{\cdot}{}^{+}f^{\parallel}{}_{\alpha\beta}$	$\overset{2}{\cdot}{}^{-}\mathcal{A}^{\parallel}{}_{\alpha\beta\chi}$
$\overset{2}{\cdot}{}^{+}\mathcal{A}^{\parallel}\,\dagger^{\alpha\beta}$	$\frac{t_{.\,1}}{2}$	$-\frac{i\,k\,t_{.\,1}}{\sqrt{2}}$	0
$\overset{2}{\cdot}{}^{+}f^{\parallel}\,\dagger^{\alpha\beta}$	$\frac{i\,k\,t_{.\,1}}{\sqrt{2}}$	$k^2\,t_{.\,1}$	0
$\overset{2}{\cdot}{}^{-}\mathcal{A}^{\parallel}\,\dagger^{\alpha\beta\chi}$	0	0	$\frac{t_{.\,1}}{2}$

Saturated propagator

	$\overset{0}{\cdot}{}^{+}\sigma^{\parallel}$	$\overset{0}{\cdot}{}^{+}\tau^{\parallel}$	$\overset{0}{\cdot}{}^{+}\tau^{\perp}$	$\overset{0}{\cdot}{}^{-}\sigma^{\parallel}$
$\overset{0}{\cdot}{}^{+}\sigma^{\parallel}\,\dagger$	$-\frac{1}{\left(1+2\,k^2\right)^2\,t_{.\,1}}$	$\frac{i\,\sqrt{2}\,k}{\left(1+2\,k^2\right)^2\,t_{.\,1}}$	0	0
$\overset{0}{\cdot}{}^{+}\tau^{\parallel}\,\dagger$	$-\frac{i\,\sqrt{2}\,k}{\left(1+2\,k^2\right)^2\,t_{.\,1}}$	$-\frac{2\,k^2}{\left(1+2\,k^2\right)^2\,t_{.\,1}}$	0	0
$\overset{0}{\cdot}{}^{+}\tau^{\perp}\,\dagger$	0	0	0	0
$\overset{0}{\cdot}{}^{-}\sigma^{\parallel}\,\dagger$	0	0	0	$\frac{1}{t_{.\,2}}$

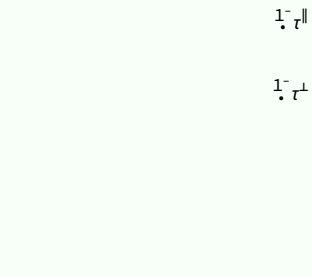
	$\overset{1}{\cdot}{}^{+}\sigma^{\parallel}{}_{\alpha\beta}$	$\overset{1}{\cdot}{}^{+}\sigma^{\perp}{}_{\alpha\beta}$	$\overset{1}{\cdot}{}^{+}\tau^{\parallel}{}_{\alpha\beta}$	$\overset{1}{\cdot}{}^{-}\sigma^{\parallel}{}_{\alpha}$	$\overset{1}{\cdot}{}^{-}\sigma^{\perp}{}_{\alpha}$	$\overset{1}{\cdot}{}^{-}\tau^{\parallel}{}_{\alpha}$	$\overset{1}{\cdot}{}^{-}\tau^{\perp}{}_{\alpha}$
$\overset{1}{\cdot}{}^{+}\sigma^{\parallel}\,\dagger^{\alpha\beta}$	$\frac{2\left(t_{.\,1}+t_{.\,2}\right)}{3\,t_{.\,1}\,t_{.\,2}+2\,k^2\,r_{.\,5}\left(t_{.\,1}+t_{.\,2}\right)}$	$\frac{\sqrt{2}\,\left(t_{.\,1}-2\,t_{.\,2}\right)}{\left(1+k^2\right)\left(3\,t_{.\,1}\,t_{.\,2}+2\,k^2\,r_{.\,5}\left(t_{.\,1}+t_{.\,2}\right)\right)}$	$\frac{i\,\sqrt{2}\,k\left(t_{.\,1}-2\,t_{.\,2}\right)}{\left(1+k^2\right)\left(3\,t_{.\,1}\,t_{.\,2}+2\,k^2\,r_{.\,5}\left(t_{.\,1}+t_{.\,2}\right)\right)}$	0	0	0	0
$\overset{1}{\cdot}{}^{+}\sigma^{\perp}\,\dagger^{\alpha\beta}$	$\frac{\sqrt{2}\,\left(t_{.\,1}-2\,t_{.\,2}\right)}{\left(1+k^2\right)\left(3\,t_{.\,1}\,t_{.\,2}+2\,k^2\,r_{.\,5}\left(t_{.\,1}+t_{.\,2}\right)\right)}$	$\frac{6\,k^2\,r_{.\,5}+t_{.\,1}+4\,t_{.\,2}}{\left(1+k^2\right)^2\left(3\,t_{.\,1}\,t_{.\,2}+2\,k^2\,r_{.\,5}\left(t_{.\,1}+t_{.\,2}\right)\right)}$	$\frac{i\,k\left(6\,k^2\,r_{.\,5}+t_{.\,1}+4\,t_{.\,2}\right)}{\left(1+k^2\right)^2\left(3\,t_{.\,1}\,t_{.\,2}+2\,k^2\,r_{.\,5}\left(t_{.\,1}+t_{.\,2}\right)\right)}$	0	0	0	0
$\overset{1}{\cdot}{}^{+}\tau^{\parallel}\,\dagger^{\alpha\beta}$	$-\frac{i\,\sqrt{2}\,k\left(t_{.\,1}-2\,t_{.\,2}\right)}{\left(1+k^2\right)\left(3\,t_{.\,1}\,t_{.\,2}+2\,k^2\,r_{.\,5}\left(t_{.\,1}+t_{.\,2}\right)\right)}$	$-\frac{i\,k\left(6\,k^2\,r_{.\,5}+t_{.\,1}+4\,t_{.\,2}\right)}{\left(1+k^2\right)^2\left(3\,t_{.\,1}\,t_{.\,2}+2\,k^2\,r_{.\,5}\left(t_{.\,1}+t_{.\,2}\right)\right)}$	$\frac{k^2\left(6\,k^2\,r_{.\,5}+t_{.\,1}+4\,t_{.\,2}\right)}{\left(1+k^2\right)^2\left(3\,t_{.\,1}\,t_{.\,2}+2\,k^2\,r_{.\,5}\left(t_{.\,1}+t_{.\,2}\right)\right)}$	0	0	0	0
$\overset{1}{\cdot}{}^{-}\sigma^{\parallel}\,\dagger^{\alpha}$	0	0	0	0	$\frac{\sqrt{2}}{t_{.\,1}+2\,k^2\,t_{.\,1}}$	0	$\frac{2\,i\,k}{t_{.\,1}+2\,k^2\,t_{.\,1}}$
$\overset{1}{\cdot}{}^{-}\sigma^{\perp}\,\dagger^{\alpha}$	0	0	0	$\frac{\sqrt{2}}{t_{.\,1}+2\,k^2\,t_{.\,1}}$	$\frac{-2\,k^2\,r_{.\,5}+t_{.\,1}}{\left(t_{.\,1}+2\,k^2\,t_{.\,1}\right)^2}$	0	$-\frac{i\,\sqrt{2}\,k\left(2\,k^2\,r_{.\,5}-t_{.\,1}\right)}{\left(t_{.\,1}+2\,k^2\,t_{.\,1}\right)^2}$
$\overset{1}{\cdot}{}^{-}\tau^{\parallel}\,\dagger^{\alpha}$	0	0	0	0	0	0	0
$\overset{1}{\cdot}{}^{-}\tau^{\perp}\,\dagger^{\alpha}$	0	0	0	$-\frac{2\,i\,k}{t_{.\,1}+2\,k^2\,t_{.\,1}}$	$\frac{i\,\sqrt{2}\,k\left(2\,k^2\,r_{.\,5}-t_{.\,1}\right)}{\left(t_{.\,1}+2\,k^2\,t_{.\,1}\right)^2}$	0	$\frac{-4\,k^4\,r_{.\,5}+2\,k^2\,t_{.\,1}}{\left(t_{.\,1}+2\,k^2\,t_{.\,1}\right)^2}$

	$\overset{2}{\cdot}{}^{+}\sigma^{\parallel}{}_{\alpha\beta}$	$\overset{2}{\cdot}{}^{+}\tau^{\parallel}{}_{\alpha\beta}$	$\overset{2}{\cdot}{}^{-}\sigma^{\parallel}{}_{\alpha\beta\chi}$
$\overset{2}{\cdot}{}^{+}\sigma^{\parallel}\,\dagger^{\alpha\beta}$	$\frac{2}{\left(1+2\,k^2\right)^2\,t_{.\,1}}$	$-\frac{2\,i\,\sqrt{2}\,k}{\left(1+2\,k^2\right)^2\,t_{.\,1}}$	0
$\overset{2}{\cdot}{}^{+}\tau^{\parallel}\,\dagger^{\alpha\beta}$	$\frac{2\,i\,\sqrt{2}\,k}{\left(1+2\,k^2\right)^2\,t_{.\,1}}$	$\frac{4\,k^2}{\left(1+2\,k^2\right)^2\,t_{.\,1}}$	0
$\overset{2}{\cdot}{}^{-}\sigma^{\parallel}\,\dagger^{\alpha\beta\chi}$	0	0	$\frac{2}{t_{.\,1}}$

Source constraints

Spin-parity form	Covariant form	Multiplicities
$\overset{0}{\cdot}{}^{+}\tau^{\perp} == 0$	$\partial_{\beta}\partial_{\alpha}\tau\,(\Delta+\mathcal{K})^{\alpha\beta} == 0$	1
$-2\,i\,k\,\overset{0}{\cdot}{}^{+}\sigma^{\parallel}+\overset{0}{\cdot}{}^{+}\tau^{\parallel} == 0$	$\partial_{\beta}\partial_{\alpha}\tau\,(\Delta+\mathcal{K})^{\alpha\beta} == \partial_{\beta}\partial^{\beta}\tau\,(\Delta+\mathcal{K})^{\alpha}{}_{\alpha}+2\,\partial_{\chi}\partial^{\chi}\partial_{\beta}\sigma^{\alpha}{}_{\alpha}{}^{\beta}$	1
$2\,i\,k\,\overset{1}{\cdot}{}^{-}\sigma^{\perp\,\alpha}+\overset{1}{\cdot}{}^{-}\tau^{\perp\,\alpha} == 0$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau\,(\Delta+\mathcal{K})^{\beta\chi} == \partial_{\chi}\partial^{\chi}\partial_{\beta}\tau\,(\Delta+\mathcal{K})^{\alpha\beta}+2\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial_{\beta}\sigma^{\beta\alpha\chi}$	3
$\overset{1}{\cdot}{}^{-}\tau^{\parallel\,\alpha} == 0$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau\,(\Delta+\mathcal{K})^{\beta\chi} == \partial_{\chi}\partial^{\chi}\partial_{\beta}\tau\,(\Delta+\mathcal{K})^{\beta\alpha}$	3
$i\,k\,\overset{1}{\cdot}{}^{+}\sigma^{\perp\,\alpha\beta}+\overset{1}{\cdot}{}^{+}\tau^{\parallel\,\alpha\beta} == 0$	$\partial_{\chi}\partial^{\alpha}\tau\,(\Delta+\mathcal{K})^{\beta\chi}+\partial_{\chi}\partial^{\beta}\tau\,(\Delta+\mathcal{K})^{\chi\alpha}+\partial_{\chi}\partial^{\chi}\tau\,(\Delta+\mathcal{K})^{\alpha\beta}+2\,\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\chi\beta\delta}+2\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\chi\alpha\beta} == \partial_{\chi}\partial^{\alpha}\tau\,(\Delta+\mathcal{K})^{\chi\beta}+\partial_{\chi}\partial^{\beta}\tau\,(\Delta+\mathcal{K})^{\alpha\chi}+\partial_{\chi}\partial^{\chi}\tau\,(\Delta+\mathcal{K})^{\beta\alpha}+2\,\partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\chi\alpha\delta}$	3
$-2\,i\,k\,\overset{2}{\cdot}{}^{+}\sigma^{\parallel\,\alpha\beta}+\overset{2}{\cdot}{}^{+}\tau^{\parallel\,\alpha\beta} == 0$	$-i\left(4\,\partial_{\delta}\partial_{\chi}\partial^{\beta}\partial^{\alpha}\tau\,(\Delta+\mathcal{K})^{\chi\delta}+2\,\partial_{\delta}\partial^{\delta}\partial^{\beta}\partial^{\alpha}\tau\,(\Delta+\mathcal{K})^{\chi}{}_{\chi}-3\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}\tau\,(\Delta+\mathcal{K})^{\beta\chi}-3\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\beta}\tau\,(\Delta+\mathcal{K})^{\alpha\chi}-3\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}\tau\,(\Delta+\mathcal{K})^{\alpha\beta}-3\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}\tau\,(\Delta+\mathcal{K})^{\beta\alpha}+4\,i\,k^{\chi}\,\partial_{\epsilon}\partial_{\chi}\partial^{\beta}\partial^{\alpha}\sigma^{\delta}{}_{\delta}{}^{\epsilon}-6\,i\,k^{\chi}\,\partial_{\epsilon}\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\delta\beta\epsilon}-6\,i\,k^{\chi}\,\partial_{\epsilon}\partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\delta\alpha\epsilon}+6\,i\,k^{\chi}\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial_{\chi}\sigma^{\alpha\beta\delta}+6\,i\,k^{\chi}\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial_{\chi}\sigma^{\beta\alpha\delta}+2\,\eta^{\alpha\beta}\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial_{\chi}\tau\,(\Delta+\mathcal{K})^{\chi\delta}-2\,\eta^{\alpha\beta}\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\tau\,(\Delta+\mathcal{K})^{\chi}{}_{\chi}-4\,i\,\eta^{\alpha\beta}\,k^{\chi}\,\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial_{\chi}\sigma^{\delta}{}_{\delta}{}^{\epsilon}\right) == 0$	5
Total expected gauge generators:		16

Massive spectrum



Massive particle

Pole residue:	$\frac{-3\,t_{.\,1}\,t_{.\,2}\,(t_{.\,1}+t_{.\,2})+3\,r_{.\,5}\,(t_{.\,1}{}^2+2\,t_{.\,2}{}^2)}{r_{.\,5}\,(t_{.\,1}+t_{.\,2})\,(-3\,t_{.\,1}\,t_{.\,2}+2\,r_{.\,5}\,(t_{.\,1}+t_{.\,2}))} > 0$
Square mass:	$-\frac{3\,t_{.\,1}\,t_{.\,2}}{2\,r_{.\,5}\,t_{.\,1}+2\,r_{.\,5}\,t_{.\,2}} > 0$
Spin:	1
Parity:	Even

Massless spectrum

(No particles)

Unitarity conditions

$$\left(t_{.\,1} < 0\;\&\&\left(\left(t_{.\,2} < 0\;\&\&\,r_{.\,5} > 0\right)\,||\,\left(t_{.\,2} > -t_{.\,1}\;\&\&\,r_{.\,5} > 0\right)\right)\right)\,||\,\left(t_{.\,1} > 0\;\&\&\,-t_{.\,1} < t_{.\,2} < 0\;\&\&\,r_{.\,5} > 0\right)$$