PSALTer results panel

Wave operator and propagator

	$0^+:\mathcal{J}$	$0^+:\rho$	$0^+:\sigma^{\parallel}$	$0^+:\tau^{\parallel}$	$0^+:\tau^{\perp}$	$0^-:\sigma^{\parallel}$
$0^+:\mathcal{J}\,\dagger$	0	0	0	0 0		0
$0^+:\rho\,\dagger$	0	$\frac{3(-12\,\lambda.+\nu.+24\,k^2\,(r_{.1}-r_{.3}+2\,r_{.4}))}{32\,k^2\,(-12\,\lambda.^2+\lambda.\,\nu.+2\,k^2\,\nu.\,(r_{.1}-r_{.3}+2\,r_{.4}))}$	$\frac{1}{-4\,i\,\sqrt{\frac{2}{3}}\,k\,\lambda+\frac{8\,i\,\sqrt{\frac{2}{3}}\,k^3\,\nu.\,(r_{.1}-r_{.3}+2\,r_{.4})}{12\,\lambda.-\nu.}}$	$-\frac{\sqrt{3}\,(-12\,\lambda.+\nu.+24\,k^2\,(r_{.1}-r_{.3}+2\,r_{.4}))}{32\,k^2\,(-12\,\lambda.^2+\lambda.\,\nu.+2\,k^2\,\nu.\,(r_{.1}-r_{.3}+2\,r_{.4}))}$	0	0
$0^+:\sigma^{\parallel}\,\dagger$	0	$\frac{i\,\sqrt{\frac{3}{2}}}{4\,(-k\,\lambda+\frac{2\,k^3\,\nu.\,(r_{.1}-r_{.3}+2\,r_{.4})}{12\,\lambda.-\nu.})}$	$\frac{\nu.}{-12\,\lambda.^2+\lambda.\,\nu.+2\,k^2\,\nu.\,(r_{.1}-r_{.3}+2\,r_{.4})}$	$\frac{i}{8\,\sqrt{2}\,(\frac{k\,\lambda}{2}+\frac{k^3\,\nu.\,(r_{.1}-r_{.3}+2\,r_{.4})}{-12\,\lambda.+\nu.})}$	0	0
$0^+:\tau^{\parallel}\,\dagger$	0	$\frac{\sqrt{3}\,(-12\,\lambda.+\nu.+24\,k^2\,(r_{.1}-r_{.3}+2\,r_{.4}))}{32\,k^2\,(12\,\lambda.^2-\nu.\,(\lambda.+2\,k^2\,(r_{.1}-r_{.3}+2\,r_{.4})))}$	$-\frac{i}{8\,\sqrt{2}\,(\frac{k\,\lambda}{2}+\frac{k^3\,\nu.\,(r_{.1}-r_{.3}+2\,r_{.4})}{-12\,\lambda.+\nu.})}$	$\frac{-12\,\lambda.+\nu.+24\,k^2\,(r_{.1}-r_{.3}+2\,r_{.4})}{32\,k^2\,(-12\,\lambda.^2+\lambda.\,\nu.+2\,k^2\,\nu.\,(r_{.1}-r_{.3}+2\,r_{.4}))}$	0	0
$0^+:\tau^{\perp}\,\dagger$	0	0	0	0 0		0
$0^-:\sigma^{\parallel}\,\dagger$	0	0	0	0	0	$\frac{1}{-2\,\lambda.+k^2\,r_{.2}+t_{.2}}$

$$S = \int\int\int\int \left(\frac{1}{18}\,(18\,\phi\,\rho+18\,\sigma^{\alpha\beta\chi}\,\mathcal{A}^{\parallel}_{\alpha\beta\chi}+36\,\lambda.\,\mathcal{A}^{\parallel}_{\alpha\chi\,\beta}\,\mathcal{A}^{\alpha\beta\chi}+6\,t_{.1}\,\mathcal{A}^{\parallel}_{\alpha\chi\,\beta}\,\mathcal{A}^{\alpha\beta\chi}-12\,t_{.2}\,\mathcal{A}^{\parallel}_{\alpha\chi\,\beta}\,\mathcal{A}^{\alpha\beta\chi}+24\,\lambda.\,\mathcal{A}^{\alpha\beta}_{\alpha}\,\mathcal{A}^{\chi}_{\beta\,\chi}-\nu.\,\mathcal{A}^{\alpha\beta}_{\alpha}\,\mathcal{A}^{\chi}_{\beta\,\chi}+6\,t_{.1}\,\mathcal{A}^{\alpha\beta}_{\alpha}\,\mathcal{A}^{\chi}_{\beta\,\chi}+18\,\tau^{\alpha\beta}\,f_{\alpha\beta}+18\,\mathcal{J}^{\alpha}\,\mathcal{B}_{\alpha}+6\,\nu.\,\mathcal{A}^{\chi}_{\alpha\,\beta}\,\partial^{\alpha}\phi+9\,\nu.\,\partial_{\alpha}\phi\,\partial^{\alpha}\phi-6\,\nu.\,\partial_{\alpha}f^{\beta}_{\ \beta}\,\partial^{\alpha}\phi+36\,\lambda.\,\partial_{\beta}\mathcal{A}^{\alpha\beta}_{\ \alpha}+72\,\lambda.\,\phi\,\partial_{\beta}\mathcal{A}^{\alpha\beta}_{\ \alpha}+6\,\nu.\,\partial^{\alpha}\phi\,\partial_{\beta}f^{\ \beta}_{\alpha}-36\,\lambda.\,\partial_{\beta}\mathcal{A}^{\alpha\beta}_{\ \alpha}-72\,\lambda.\,f^{\alpha\beta}_{\ \alpha}\,\partial_{\beta}\mathcal{A}^{\chi}_{\alpha\,\chi}+36\,\lambda.\,\partial_{\beta}f^{\alpha\beta}_{\ \alpha}+12\,\lambda.\,\mathcal{A}^{\chi}_{\alpha\,\chi}\,\partial_{\beta}f^{\alpha\beta}_{\ \alpha}-12\,t_{.1}\,\mathcal{A}^{\chi}_{\alpha\,\chi}\,\partial_{\beta}f^{\alpha\beta}_{\ \alpha}+2\,\nu.\,\mathcal{A}^{\chi}_{\alpha\,\chi}\,\partial_{\beta}f^{\alpha\beta}_{\ \alpha}+12\,\lambda.\,\mathcal{A}^{\chi}_{\beta\,\chi}\,\partial^{\beta}f^{\alpha}_{\ \alpha}-12\,t_{.1}\,\mathcal{A}^{\chi}_{\beta\,\chi}\,\partial^{\beta}f^{\alpha}_{\ \alpha}+2\,\nu.\,\mathcal{A}^{\chi}_{\beta\,\chi}\,\partial^{\beta}f^{\alpha}_{\ \alpha}+12\,t_{.1}\,\mathcal{A}^{\chi}_{\beta\,\chi}\,\partial^{\beta}f^{\alpha}_{\ \alpha}-6\,\lambda.\,\partial_{\beta}f^{\chi}_{\ \alpha}\,\partial^{\beta}f^{\alpha}_{\ \chi}+\nu.\,\partial_{\beta}f^{\chi}_{\ \alpha}\,\partial^{\beta}f^{\alpha}_{\ \chi}-6\,t_{.1}\,\partial_{\beta}f^{\chi}_{\ \alpha}\,\partial^{\beta}f^{\alpha}_{\ \chi}+36\,\lambda.\,f^{\alpha\beta}_{\ \alpha}\,\partial_{\chi}\mathcal{A}^{\chi}_{\beta\,\alpha}+6\,\lambda.\,f^{\alpha}_{\ \alpha}\,\partial_{\chi}\mathcal{A}^{\beta\chi}_{\ \beta}-6\,\lambda.\,\partial_{\chi}\mathcal{A}^{\beta\chi}_{\ \beta}+12\,\lambda.\,\partial^{\beta}f^{\alpha}_{\ \alpha}\,\partial_{\chi}f^{\chi}_{\ \beta}-2\,\nu.\,\partial^{\beta}f^{\alpha}_{\ \alpha}\,\partial_{\chi}f^{\chi}_{\ \beta}+12\,t_{.1}\,\partial^{\beta}f^{\alpha}_{\ \alpha}\,\partial_{\chi}f^{\chi}_{\ \beta}-18\,r_{.4}\,\partial_{\beta}\mathcal{A}^{\ \chi}_{\chi\ \delta}\,\partial^{\chi}\mathcal{A}^{\alpha\beta}_{\ \alpha}+36\,\lambda.\,\mathcal{A}^{\ \chi}_{\alpha\chi\ \beta}\,\partial^{\chi}f^{\alpha\beta}_{\ \alpha}+24\,t_{.1}\,\mathcal{A}^{\ \chi}_{\beta\chi\alpha}\,\partial^{\chi}f^{\alpha\beta}_{\ \alpha}+12\,t_{.2}\,\mathcal{A}^{\ \chi}_{\beta\chi\alpha}\,\partial^{\chi}f^{\alpha\beta}_{\ \alpha}-6\,t_{.2}\,\partial_{\alpha}f_{\ \chi\ \beta}\,\partial^{\chi}f^{\alpha\beta}+6\,t_{.2}\,\partial_{\alpha}f_{\ \beta\chi}\,\partial^{\chi}f^{\alpha\beta}-9\,\lambda.\,\partial_{\alpha}f_{\ \beta\chi}\,\partial^{\chi}f^{\alpha\beta}-12\,t_{.1}\,\partial_{\alpha}f_{\ \beta\chi}\,\partial^{\chi}f^{\alpha\beta}-6\,t_{.1}\,\partial_{\beta}f_{\ \alpha\chi}\,\partial^{\chi}f^{\alpha\beta}-3\,t_{.2}\,\partial_{\beta}f_{\ \alpha\chi}\,\partial^{\chi}f^{\alpha\beta}+9\,\lambda.\,\partial_{\chi}f_{\ \beta\alpha}\,\partial^{\chi}f^{\alpha\beta}+6\,t_{.1}\,\partial_{\chi}f_{\ \beta\alpha}\,\partial^{\chi}f^{\alpha\beta}-3\,t_{.2}\,\partial_{\chi}f_{\ \beta\alpha}\,\partial^{\chi}f^{\alpha\beta}+9\,\lambda.\,\partial_{\chi}f_{\ \alpha\beta}\,\partial^{\chi}f^{\alpha\beta}+6\,t_{.1}\,\partial_{\chi}f_{\ \alpha\beta}\,\partial^{\chi}f^{\alpha\beta}+18\,r_{.4}\,\partial_{\alpha}\mathcal{A}^{\alpha\beta\chi}\,\partial_{\delta}\mathcal{A}^{\ \delta}_{\beta\ \chi}-18\,r_{.5}\,\partial_{\alpha}\mathcal{A}^{\alpha\beta\chi}\,\partial_{\delta}\mathcal{A}^{\ \delta}_{\beta\ \chi}+18\,r_{.4}\,\partial_{\alpha}\mathcal{A}^{\alpha\beta\chi}\,\partial_{\delta}\mathcal{A}^{\ \delta}_{\chi\ \beta}+18\,r_{.5}\,\partial_{\alpha}\mathcal{A}^{\alpha\beta\chi}\,\partial_{\delta}\mathcal{A}^{\ \delta}_{\chi\ \beta}-24\,r_{.4}\,\partial_{\beta}\mathcal{A}^{\ \chi}_{\alpha\ \delta}\,\partial^{\delta}\mathcal{A}^{\alpha\beta}_{\ \chi}+24\,r_{.5}\,\partial_{\beta}\mathcal{A}^{\ \chi}_{\alpha\ \delta}\,\partial^{\delta}\mathcal{A}^{\alpha\beta}_{\ \chi}+24\,r_{.4}\,\partial_{\beta}\mathcal{A}^{\ \chi}_{\chi\ \delta}\,\partial^{\delta}\mathcal{A}^{\alpha\beta}_{\ \alpha}-24\,r_{.5}\,\partial_{\beta}\mathcal{A}^{\ \chi}_{\chi\ \delta}\,\partial^{\delta}\mathcal{A}^{\alpha\beta}_{\ \alpha}+12\,r_{.4}\,\partial_{\beta}\mathcal{A}^{\ \chi}_{\alpha\chi\ \delta}\,\partial^{\delta}\mathcal{A}^{\alpha\beta}_{\ \alpha}-12\,r_{.5}\,\partial_{\beta}\mathcal{A}^{\ \chi}_{\alpha\chi\ \delta}\,\partial^{\delta}\mathcal{A}^{\alpha\beta}_{\ \alpha}-12\,r_{.4}\,\partial_{\beta}\mathcal{A}^{\ \chi}_{\chi\ \delta}\,\partial^{\delta}\mathcal{A}^{\alpha\beta}_{\ \alpha}+12\,r_{.5}\,\partial_{\beta}\mathcal{A}^{\ \chi}_{\chi\ \delta}\,\partial^{\delta}\mathcal{A}^{\alpha\beta}_{\ \alpha}-6\,r_{.4}\,\partial_{\chi}\mathcal{A}^{\ \chi}_{\alpha\ \beta}\,\partial^{\delta}\mathcal{A}^{\alpha\beta}_{\ \delta}+6\,r_{.5}\,\partial_{\chi}\mathcal{A}^{\ \chi}_{\alpha\ \beta}\,\partial^{\delta}\mathcal{A}^{\alpha\beta}_{\ \delta}+6\,r_{.4}\,\partial_{\chi}\mathcal{A}^{\ \chi}_{\chi\ \beta}\,\partial^{\delta}\mathcal{A}^{\alpha\beta}_{\ \alpha}-6\,r_{.5}\,\partial_{\chi}\mathcal{A}^{\ \chi}_{\chi\ \beta}\,\partial^{\delta}\mathcal{A}^{\alpha\beta}_{\ \alpha}+12\,r_{.4}\,\partial_{\chi}\mathcal{A}^{\ \chi}_{\alpha\chi\ \delta}\,\partial^{\delta}\mathcal{A}^{\alpha\beta}_{\ \alpha}-12\,r_{.5}\,\partial_{\chi}\mathcal{A}^{\ \chi}_{\alpha\chi\ \delta}\,\partial^{\delta}\mathcal{A}^{\alpha\beta}_{\ \alpha}+12\,r_{.4}\,\partial_{\chi}\mathcal{A}^{\ \chi}_{\chi\ \delta}\,\partial^{\delta}\mathcal{A}^{\alpha\beta}_{\ \alpha}-12\,r_{.5}\,\partial_{\chi}\mathcal{A}^{\ \chi}_{\chi\ \delta}\,\partial^{\delta}\mathcal{A}^{\alpha\beta}_{\ \alpha}+6\,r_{.4}\,\partial_{\delta}\mathcal{A}^{\ \chi}_{\alpha\chi\ \beta}\,\partial^{\delta}\mathcal{A}^{\alpha\beta}_{\ \chi}-6\,r_{.5}\,\partial_{\delta}\mathcal{A}^{\ \chi}_{\alpha\chi\ \beta}\,\partial^{\delta}\mathcal{A}^{\alpha\beta}_{\ \chi}+12\,r_{.4}\,\partial_{\delta}\mathcal{A}^{\ \chi}_{\alpha\chi\ \beta}\,\partial^{\delta}\mathcal{A}^{\alpha\beta}_{\ \chi}-12\,r_{.5}\,\partial_{\delta}\mathcal{A}^{\ \chi}_{\alpha\chi\ \beta}\,\partial^{\delta}\mathcal{A}^{\alpha\beta}_{\ \chi})\right)[t,\,x,\,y,\,z]\,d\,z\;d\,y\;d\,x\;d\,t$$

Spin-parity form	Covariant form	Multiplicities
$0^+:\tau^{\perp}==0$	$\partial_{\beta}\partial_{\alpha}\tau^{\alpha\beta}==0$	1
$0^+:\rho+0^+:\tau^{\parallel}==0$	$\partial_{\alpha}\partial^{\alpha}\rho+\partial_{\beta}\partial^{\beta}\tau^{\alpha}_{\ \alpha}==\partial_{\beta}\partial_{\alpha}\tau^{\alpha\beta}$	1
$0^+:\mathcal{J}==0$	$\partial_{\alpha}\mathcal{J}^{\alpha}==0$	1
$2\,i\;k\,1^-:\sigma^{\perp\,\alpha}+1^-:\tau^{\perp\,\alpha}==0$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau^{\beta\chi}==\partial_{\chi}\partial^{\chi}\partial_{\beta}\tau^{\alpha\beta}+2\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial_{\beta}\sigma^{\beta\alpha\chi}$	3
$1^-:\tau^{\parallel\,\alpha}==0$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\tau^{\beta\chi}==\partial_{\chi}\partial^{\chi}\partial_{\beta}\tau^{\beta\alpha}$	3
$1^-:\mathcal{J}^{\alpha}==0$	$\partial_{\beta}\partial^{\alpha}\mathcal{J}^{\beta}==\partial_{\beta}\partial^{\beta}\mathcal{J}^{\alpha}$	3
$i\,i\;k\,1^+:\sigma^{\perp\,\alpha\beta}+1^+:\tau^{\parallel\,\alpha\beta}==0$	$\partial_{\chi}\partial^{\alpha}\tau^{\beta\chi}+\partial_{\chi}\partial^{\beta}\tau^{\chi\alpha}+\partial_{\chi}\partial^{\chi}\tau^{\alpha\beta}+2\,\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\chi\,\beta\delta}+2\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\chi\alpha\beta}==\partial_{\chi}\partial^{\alpha}\tau^{\chi\ \beta}+\partial_{\chi}\partial^{\beta}\tau^{\alpha\chi}+\partial_{\chi}\partial^{\chi}\tau^{\beta\alpha}+2\,\partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\chi\alpha\delta}$	3
Total expected gauge generators:		15

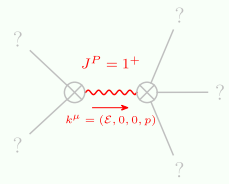
	$0^+:\mathcal{B}$	$0^+:\phi$	$0^+:\mathcal{A}^{\parallel}$	$0^+:f^{\parallel}$	$0^+:f^{\perp}$	$0^-:\mathcal{A}^{\parallel}$
$0^+:\mathcal{B}\,\dagger$	0	0	0	0	0	0
$0^+:\phi\,\dagger$	0	$\frac{k^2\,\nu.}{2}$	$\frac{i\,k(12\,\lambda.-\nu.)}{2\,\sqrt{6}}$	$-\frac{k^2\,\nu.}{2\,\sqrt{3}}$	0	0
$0^+:\mathcal{A}^{\parallel}\,\dagger$	0	$-\frac{i\,k(12\,\lambda.+\nu.)}{2\,\sqrt{6}}$	$-\lambda.+\frac{\nu.}{12}+2\,k^2\,(r_{.1}-r_{.3}+2\,r_{.4})$	$\frac{i\,k(12\,\lambda.-\nu.)}{6\,\sqrt{2}}$	0	0
$0^+:f^{\parallel}\,\dagger$	0	$-\frac{k^2\,\nu.}{2\,\sqrt{3}}$	$\frac{i\,k(12\,\lambda.-\nu.)}{6\,\sqrt{2}}$	$\frac{k^2\,\nu.}{6}$	0	0
$0^+:f^{\perp}\,\dagger$	0	0	0	0	0	0
$0^-:\mathcal{A}^{\parallel}\,\dagger$	0	0	0	0	0	$-2\,\lambda.+k^2\,r_{.2}+t_{.2}$

	$2^+:\sigma^{\parallel}_{\alpha\beta}$	$2^+:f^{\parallel}_{\alpha\beta}$	$2^-:\sigma^{\parallel}_{\alpha\beta\chi}$
$2^+:\sigma^{\parallel}_{\alpha\beta}\,\dagger^{\alpha\beta}$	$\frac{k^2\,(\lambda.+t_{.1})}{k^4\,(2\,r_{.1}-2\,r_{.3}+r_{.4})(\lambda.+t_{.1})-k\,\lambda.\,(2\,\lambda.+t_{.1})}$	$\frac{i\,\sqrt{2}\,(2\,\lambda.+t_{.1})}{2\,k^3\,(2\,r_{.1}-2\,r_{.3}+r_{.4})(\lambda.+t_{.1})-k\,\lambda.\,(2\,\lambda.+t_{.1})}$	0
$2^+:f^{\parallel}_{\alpha\beta}\,\dagger^{\alpha\beta}$	$\frac{i\,\sqrt{2}\,(2\,\lambda.+t_{.1})}{2\,k^3\,(2\,r_{.1}-2\,r_{.3}+r_{.4})(\lambda.+t_{.1})-k\,\lambda.\,(2\,\lambda.+t_{.1})}$	$-\frac{\lambda.+k^2\,(2\,r_{.1}-2\,r_{.3}+r_{.4})(\lambda.+t_{.1})-\frac{1}{2}\,k^2\,\lambda.\,(2\,\lambda.+t_{.1})}{k^4\,(2\,r_{.1}-2\,r_{.3}+r_{.4})(\lambda.+t_{.1})-k\,\lambda.\,(2\,\lambda.+t_{.1})}$	0
$2^-:\mathcal{A}^{\parallel}_{\alpha\beta\chi}\,\dagger^{\alpha\beta\chi}$	0	0	$\frac{1}{\lambda.+k^2\,r_{.1}+\frac{t_{.1}}{2}}$

	$1^+:\mathcal{A}^{\parallel}_{\alpha\beta}$	$1^+:\mathcal{A}^{\perp}_{\alpha\beta}$	$1^+:f^{\parallel}_{\alpha\beta}$	$1^-:\mathcal{B}_{\alpha}$	$1^-:\mathcal{A}^{\parallel}_{\alpha}$	$1^-:\mathcal{A}^{\perp}_{\alpha}$	$1^-:f^{\parallel}_{\alpha}$	$1^-:f^{\perp}_{\alpha}$
$1^+:\mathcal{A}^{\parallel}\,\dagger^{\alpha\beta}$	$\frac{1}{6}\,(-6\,\lambda.+6\,k^2\,(2\,r_{.3}+r_{.5})+t_{.1}+4\,t_{.2})$	$-\frac{6\,\lambda.+t_{.1}-2\,t_{.2}}{3\,\sqrt{2}}$	$-\frac{i\,k(6\,\lambda.+t_{.1}-2\,t_{.2})}{3\,\sqrt{2}}$	0	0	0 0		0
$1^+:\mathcal{A}^{\perp}\,\dagger^{\alpha\beta}$	$-\frac{6\,\lambda.+t_{.1}-2\,t_{.2}}{3\,\sqrt{2}}$	$\frac{t_{.1}+t_{.2}}{3}$	$\frac{1}{3}\,i\;k(t_{.1}+t_{.2})$	0	0	0 0		0
$1^+:f^{\parallel}\,\dagger^{\alpha\beta}$	$\frac{i\,k(6\,\lambda.+t_{.1}-2\,t_{.2})}{3\,\sqrt{2}}$	$-\frac{1}{3}\,i\;k(t_{.1}+t_{.2})$	$\frac{1}{3}\,k^2\,(t_{.1}+t_{.2})$	0	0	0 0		0
$1^-:\mathcal{B}\,\dagger^{\alpha}$	0	0	0	0	0	0 0		0
$1^-:\mathcal{A}^{\parallel}\,\dagger^{\alpha}$	0	0	0	0	$\frac{1}{18}\,(-6\,\lambda.+\nu.+3\,(6\,k^2\,(r_{.1}+r_{.4}+r_{.5})+t_{.1}))$	$\frac{24\,\lambda.-\nu.+6\,t_{.1}}{18\,\sqrt{2}}$	0	$\frac{1}{18}\,i\;k(24\,\lambda.-\nu.+6\,t_{.1})$
$1^-:\mathcal{A}^{\perp}\,\dagger^{\alpha}$	0	0	0	0	$\frac{24\,\lambda.-\nu.+6\,t_{.1}}{18\,\sqrt{2}}$	$\frac{1}{36}\,(12\,\lambda.+\nu.+12\,t_{.1})$	0	$\frac{i\,k(12\,\lambda.+\nu.+12\,t_{.1})}{18\,\sqrt{2}}$
$1^-:f^{\parallel}\,\dagger^{\alpha}$	0	0	0	0	0	0 0		0
$1^-:f^{\perp}\,\dagger^{\alpha}$	0	0	0	0	$-\frac{1}{18}\,i\;k(24\,\lambda.-\nu.+6\,t_{.1})$	$-\frac{i\,k(12\,\lambda.+\nu.+12\,t_{.1})}{18\,\sqrt{2}}$	0	$\frac{1}{18}\,k^2\,(12\,\lambda.+\nu.+12\,t_{.1})$

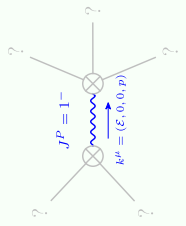
	$2^+:\sigma^{\parallel}_{\alpha\beta}$	$2^+:f^{\parallel}_{\alpha\beta}$	$2^-:\mathcal{A}^{\parallel}_{\alpha\beta\chi}$
$2^+:\sigma^{\parallel}_{\alpha\beta}\,\dagger^{\alpha\beta}$	$\lambda.+k^2\,(2\,r_{.1}-2\,r_{.3}+r_{.4})+\frac{t_{.1}}{2}$	$\frac{i\,k(2\,\lambda.+t_{.1})}{\sqrt{2}}$	0
$2^+:f^{\parallel}_{\alpha\beta}\,\dagger^{\alpha\beta}$	$-\frac{i\,k(2\,\lambda.+t_{.1})}{\sqrt{2}}$	$k^2\,(\lambda.+t_{.1})$	0
$2^-:\mathcal{A}^{\parallel}_{\alpha\beta\chi}\,\dagger^{\alpha\beta\chi}$	0	0	$\lambda.+k^2\,r_{.1}+\frac{t_{.1}}{2}$

Massive and massless spectra



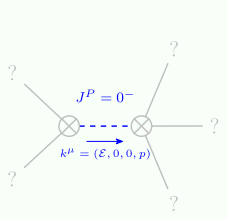
Massive particle

Pole residue:	$\frac{3\,(r_{.5}\,t_{.1}^2-r_{.1}\,t_{.2}^2+2\,r_{.5}\,t_{.2}^2-t_{.1}\,t_{.2}^2+4\,\lambda.^2\,(6\,r_{.3}+3\,r_{.5}+t_{.1}+t_{.2})+2\,\lambda.\,(2\,r_{.5}\,t_{.1}+t_{.1}^2+4\,r_{.3}\,(t_{.1}-2\,t_{.2})-4\,r_{.5}\,t_{.2}-t_{.2}^2)+2\,r_{.3}\,(t_{.1}^2+2\,t_{.2}^2))}{(2\,r_{.3}+r_{.5})\,(t_{.1}+t_{.2})\,(12\,\lambda.^2+2\,r_{.5}\,t_{.1}+6\,\lambda.\,(t_{.1}-t_{.2})+2\,r_{.5}\,t_{.2}-3\,t_{.1}\,t_{.2}+4\,r_{.3}\,(t_{.1}+t_{.2}))} > 0$
Square mass:	$\frac{3\,(2\,\lambda.+t_{.1})\,(2\,\lambda.-t_{.2})}{2\,(2\,r_{.3}+r_{.5})\,(t_{.1}+t_{.2})} > 0$
Spin:	1
Parity:	Even



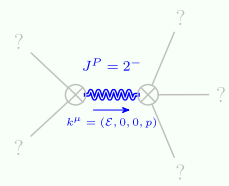
Massive particle

Pole residue:	$-\frac{(3\,(288\,\lambda.^3+\nu.^2\,(r_{.1}+r_{.4}+r_{.5}-t_{.1})-12\,\nu.\,t_{.1}^2+72\,(r_{.1}+r_{.4}+r_{.5})\,t_{.1}^2+432\,\lambda.^2\,(r_{.1}+r_{.4}+r_{.5}+t_{.1})-2\,\lambda.\,(\nu.^2+12\,\nu.\,(r_{.1}+r_{.4}+r_{.5}+t_{.1})-72\,t_{.1}\,(2\,r_{.1}+2\,r_{.4}+2\,r_{.5}+t_{.1}))))/((r_{.1}+r_{.4}+r_{.5})\,(12\,\lambda.+\nu.+12\,t_{.1})\,(72\,\lambda.^2+\nu.\,(r_{.1}+r_{.4}+r_{.5}-3\,t_{.1})+12\,(r_{.1}+r_{.4}+r_{.5})\,t_{.1}-6\,\lambda.\,(\nu.-2\,(r_{.1}+r_{.4}+r_{.5}+3\,t_{.1}))))) > 0$
Square mass:	$\frac{3\,(12\,\lambda.-\nu.)\,(2\,\lambda.+t_{.1})}{2\,(r_{.1}+r_{.4}+r_{.5})\,(12\,\lambda.+\nu.+12\,t_{.1})} > 0$
Spin:	1
Parity:	Odd



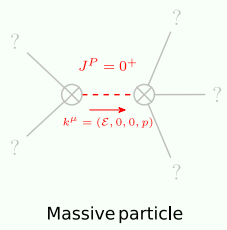
Massive particle

Pole residue:	$\frac{1}{r_{.2}} > 0$
Square mass:	$\frac{2\,\lambda.+t_{.2}}{r_{.2}} > 0$
Spin:	0
Parity:	Odd



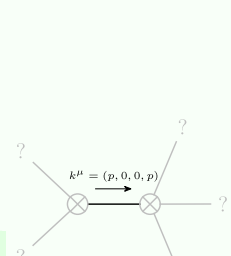
Massive particle

Pole residue:	$\frac{1}{r_{.1}} > 0$
Square mass:	$-\frac{2\,\lambda.+t_{.1}}{2\,r_{.1}} > 0$
Spin:	2
Parity:	Odd



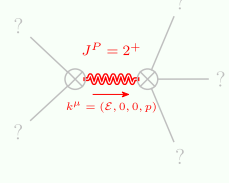
Massive particle

Pole residue:	$\frac{\nu.\,(-r_{.1}+r_{.3}-2\,r_{.4})+4\,\lambda.\,(\nu.+3\,r_{.1}-3\,r_{.3}+6\,r_{.4})}{8\,\lambda.\,\nu.\,(r_{.1}-r_{.3}+2\,r_{.4})} > 0$
Square mass:	$\frac{12\,\lambda.^2-\lambda.\,\nu.}{2\,\nu.\,r_{.1}-2\,\nu.\,r_{.3}+4\,\nu.\,r_{.4}} > 0$
Spin:	0
Parity:	Even



Massless particle

Pole residue:	$\frac{1}{\lambda.} > 0$
Polarisations:	2



Massive particle

Pole residue:	$\frac{\lambda.^2+(2\,r_{.1}-2\,r_{.3}+r_{.4})\,t_{.1}+\lambda.\,(4\,r_{.1}-4\,r_{.3}+2\,r_{.4}+t_{.1})}{\lambda.\,(2\,r_{.1}-2\,r_{.3}+r_{.4})\,(\lambda.+t_{.1})} > 0$
Square mass:	$\frac{\lambda.\,(2\,\lambda.+t_{.1})}{2\,(2\,r_{.1}-2\,r_{.3}+r_{.4})\,(\lambda.+t_{.1})} > 0$
Spin:	2
Parity:	Even

Unitarity conditions

(Timeout after 10 seconds)