PSALTer results panel

Wave operator and propagator

	$^{1^+}\mathcal{A}_a{}^{\parallel}{}_{\alpha\beta}$	$^{1^+}\mathcal{A}_a{}^{\perp}{}_{\alpha\beta}$	$^{1^+}\mathcal{A}_s{}^{\perp}{}_{\alpha\beta}$	$^{1^-}h^{\perp}{}_{\alpha}$	$^{1^-}\mathcal{A}_a{}^{\parallel}{}_{\alpha}$	$^{1^-}\mathcal{A}_a{}^{\perp}{}_{\alpha}$	$^{1^-}\mathcal{A}_s{}^{\perp t}{}_{\alpha}$	$^{1^-}\mathcal{A}_s{}^{\parallel t}{}_{\alpha}$	$^{1^-}\mathcal{A}_s{}^{\perp h}{}_{\alpha}$	$^{1^-}\mathcal{A}_s{}^{\parallel h}{}_{\alpha}$
$^{1^+}\mathcal{A}_a{}^{\parallel}\dagger^{\alpha\beta}$	$\frac{1}{4}(-a_0-15c_1k^2)$	$-\frac{a_0}{2\sqrt{2}}$	$5c_1k^2$	0	0	0	0	0	0	0
$^{1^+}\mathcal{A}_a{}^{\perp}\dagger^{\alpha\beta}$	$-\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	0	0	0	0
$^{1^+}\mathcal{A}_s{}^{\perp}\dagger^{\alpha\beta}$	$5c_1k^2$	0	$\frac{1}{4}(a_0-29c_1k^2)$	0	0	0	0	0	0	0
$^{1^-}h^{\perp}\dagger^{\alpha}$	0	0	0	0	$\frac{i a_0 k}{4\sqrt{2}}$	0	$-\frac{i a_0 k}{4\sqrt{6}}$	$\frac{1}{4}i\sqrt{\frac{5}{6}}a_0k$	$-\frac{i a_0 k}{4\sqrt{3}}$	$-\frac{i a_0 k}{4\sqrt{6}}$
$^{1^-}\mathcal{A}_a{}^{\parallel}\dagger^{\alpha}$	0	0	0	$-\frac{i a_0 k}{4\sqrt{2}}$	$\frac{1}{4}(-a_0-3c_1k^2)$	$\frac{a_0}{2\sqrt{2}}$	$\frac{5}{2}\sqrt{3}c_1k^2$	$-\frac{5}{2}\sqrt{\frac{5}{3}}c_1k^2$	$5\sqrt{\frac{3}{2}}c_1k^2$	$-\frac{5c_1k^2}{\sqrt{3}}$
$^{1^-}\mathcal{A}_a{}^{\perp}\dagger^{\alpha}$	0	0	0	0	$\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0
$^{1^-}\mathcal{A}_s{}^{\perp t}\dagger^{\alpha}$	0	0	0	$\frac{i a_0 k}{4\sqrt{6}}$	$\frac{5}{2}\sqrt{3}c_1k^2$	0	$-\frac{a_0}{3}$	$\frac{1}{6}\sqrt{5}(a_0-8c_1k^2)$	$-\frac{a_0}{6\sqrt{2}}$	$\frac{1}{6}(-a_0+20c_1k^2)$
$^{1^-}\mathcal{A}_s{}^{\parallel t}\dagger^{\alpha}$	0	0	0	$-\frac{1}{4}i\sqrt{\frac{5}{6}}a_0k$	$-\frac{5}{2}\sqrt{\frac{5}{3}}c_1k^2$	0	$\frac{1}{6}\sqrt{5}(a_0-8c_1k^2)$	$\frac{1}{3}(a_0+7c_1k^2)$	$-\frac{1}{6}\sqrt{\frac{5}{2}}(a_0+16c_1k^2)$	$-\frac{1}{6}\sqrt{5}(a_0-5c_1k^2)$
$^{1^-}\mathcal{A}_s{}^{\perp h}\dagger^{\alpha}$	0	0	0	$\frac{i a_0 k}{4\sqrt{3}}$	$5\sqrt{\frac{3}{2}}c_1k^2$	0	$-\frac{a_0}{6\sqrt{2}}$	$-\frac{1}{6}\sqrt{\frac{5}{2}}(a_0+16c_1k^2)$	$\frac{a_0}{3}$	$\frac{a_0+40c_1k^2}{6\sqrt{2}}$
$^{1^-}\mathcal{A}_s{}^{\parallel h}\dagger^{\alpha}$	0	0	0	$\frac{i a_0 k}{4\sqrt{6}}$	$-\frac{5c_1k^2}{\sqrt{3}}$	0	$\frac{1}{6}(-a_0+20c_1k^2)$	$-\frac{1}{6}\sqrt{5}(a_0-5c_1k^2)$	$\frac{a_0+40c_1k^2}{6\sqrt{2}}$	$\frac{5}{12}(a_0-17c_1k^2)$

	$^{3^-}\mathcal{A}_s{}^{\parallel}{}_{\alpha\beta\chi}$
$^{3^-}\mathcal{A}_s{}^{\parallel}\dagger^{\alpha\beta\chi}$	$\frac{1}{2}(-a_0-7c_1k^2)$

	$^{3^-}\mathcal{W}_s{}^{\parallel}{}_{\alpha\beta\chi}$
$^{3^-}\mathcal{W}_s{}^{\parallel}\dagger^{\alpha\beta\chi}$	$-\frac{2}{a_0+7c_1k^2}$

$$
\begin{aligned}
\mathcal{S} ==\; & \iiiint\Big(\tfrac{1}{4}\big(2a_0\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}\mathcal{A}^{\chi}{}_{\beta\chi}+\mathcal{A}^{\alpha\beta\chi}(-2a_0\mathcal{A}_{\beta\chi\alpha}+4\mathcal{W}_{\alpha\beta\chi})+4\mathcal{T}^{\alpha\beta}h_{\alpha\beta}-a_0h^{\chi}{}_{\chi}\partial_\beta\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}+a_0h^{\chi}{}_{\chi}\partial_\beta\mathcal{A}^{\alpha\beta}{}_{\alpha}-2a_0h_{\alpha\chi} \\
& \partial_\beta\mathcal{A}^{\alpha\beta\chi}+22c_1\partial^\alpha\mathcal{A}^{\chi\delta}{}_{\delta}\partial_\beta\mathcal{A}_{\chi\alpha}{}^{\beta}+2c_1\partial^\alpha\mathcal{A}_{\chi\alpha}{}^{\beta}\partial_\beta\mathcal{A}^{\chi\delta}{}_{\delta}-76c_1\partial^\alpha\mathcal{A}^{\chi\delta}{}_{\chi}\partial_\beta\mathcal{A}_{\delta\alpha}{}^{\beta}+ \\
& 2a_0h_{\beta\chi}\partial^\chi\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}-2c_1\partial_\beta\mathcal{A}_{\chi}{}^{\delta}{}_{\delta}\partial^\chi\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}-2c_1\partial_\beta\mathcal{A}^{\delta}{}_{\delta\chi}\partial^\chi\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}+2c_1\partial_\chi\mathcal{A}_{\beta}{}^{\delta}{}_{\delta}\partial^\chi\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}- \\
& 2c_1\partial_\chi\mathcal{A}^{\delta}{}_{\beta\delta}\partial^\chi\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}-2c_1\partial_\chi\mathcal{A}^{\delta}{}_{\delta\beta}\partial^\chi\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}-22c_1\partial_\beta\mathcal{A}_{\chi}{}^{\delta}{}_{\delta}\partial^\chi\mathcal{A}^{\alpha\beta}{}_{\alpha}+38c_1\partial_\beta\mathcal{A}^{\delta}{}_{\chi\delta}\partial^\chi\mathcal{A}^{\alpha\beta}{}_{\alpha}+ \\
& 22c_1\partial_\chi\mathcal{A}_{\beta}{}^{\delta}{}_{\delta}\partial^\chi\mathcal{A}^{\alpha\beta}{}_{\alpha}-2c_1\partial_\chi\mathcal{A}^{\delta}{}_{\beta\delta}\partial^\chi\mathcal{A}^{\alpha\beta}{}_{\alpha}+4c_1\partial_\alpha\mathcal{A}_{\chi}{}^{\delta}{}_{\delta}\partial^\chi\mathcal{A}^{\alpha\beta}{}_{\beta}- \\
& 4c_1\partial_\chi\mathcal{A}_{\alpha}{}^{\delta}{}_{\delta}\partial^\chi\mathcal{A}^{\alpha\beta}{}_{\beta}-2c_1\partial_\chi\mathcal{A}^{\alpha\beta\chi}\partial_\delta\mathcal{A}_{\alpha\beta}{}^{\delta}-2c_1\partial_\beta\mathcal{A}^{\alpha\beta\chi}\partial_\delta\mathcal{A}_{\alpha\chi}{}^{\delta}-2c_1\partial_\beta\mathcal{A}^{\alpha\beta\chi}\partial_\delta\mathcal{A}_{\alpha}{}^{\delta}{}_{\chi}+ \\
& 38c_1\partial_\chi\mathcal{A}^{\alpha\beta\chi}\partial_\delta\mathcal{A}_{\beta\alpha}{}^{\delta}+4c_1\partial^\chi\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}\partial_\delta\mathcal{A}_{\beta}{}^{\delta}{}_{\chi}-22c_1\partial^\chi\mathcal{A}^{\alpha\beta}{}_{\beta}\partial_\delta\mathcal{A}_{\chi\alpha}{}^{\delta}+ \\
& 2c_1\partial^\chi\mathcal{A}^{\alpha\beta}{}_{\alpha}\partial_\delta\mathcal{A}_{\chi\beta}{}^{\delta}-2c_1\partial_\beta\mathcal{A}^{\alpha\beta\chi}\partial_\delta\mathcal{A}_{\chi}{}^{\delta}{}_{\alpha}-2c_1\partial^\chi\mathcal{A}^{\alpha\beta}{}_{\beta}\partial_\delta\mathcal{A}_{\chi}{}^{\delta}{}_{\alpha}+2c_1\partial^\chi\mathcal{A}_{\beta\alpha}{}^{\beta}\partial_\delta\mathcal{A}_{\chi}{}^{\delta\alpha}+ \\
& 4c_1\partial^\chi\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}\partial_\delta\mathcal{A}_{\chi}{}^{\delta}{}_{\beta}-2c_1\partial_\beta\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}\partial_\delta\mathcal{A}^{\chi}{}_{\chi}{}^{\delta}+4c_1\partial_\beta\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}\partial_\delta\mathcal{A}^{\chi\delta}{}_{\chi}-2c_1\partial_\beta\mathcal{A}^{\alpha\beta}{}_{\alpha}\partial_\delta\mathcal{A}^{\chi\delta}{}_{\chi}+ \\
& 2c_1\partial_\alpha\mathcal{A}_{\beta\chi\delta}\partial^\delta\mathcal{A}^{\alpha\beta\chi}+4c_1\partial_\alpha\mathcal{A}_{\beta\delta\chi}\partial^\delta\mathcal{A}^{\alpha\beta\chi}+4c_1\partial_\alpha\mathcal{A}_{\chi\beta\delta}\partial^\delta\mathcal{A}^{\alpha\beta\chi}+2c_1\partial_\alpha\mathcal{A}_{\chi\delta\beta}\partial^\delta\mathcal{A}^{\alpha\beta\chi}+ \\
& 4c_1\partial_\alpha\mathcal{A}_{\delta\beta\chi}\partial^\delta\mathcal{A}^{\alpha\beta\chi}+4c_1\partial_\alpha\mathcal{A}_{\delta\chi\beta}\partial^\delta\mathcal{A}^{\alpha\beta\chi}-2c_1\partial_\beta\mathcal{A}_{\alpha\chi\delta}\partial^\delta\mathcal{A}^{\alpha\beta\chi}-2c_1\partial_\beta\mathcal{A}_{\alpha\delta\chi}\partial^\delta\mathcal{A}^{\alpha\beta\chi}- \\
& 2c_1\partial_\beta\mathcal{A}_{\chi\delta\alpha}\partial^\delta\mathcal{A}^{\alpha\beta\chi}-2c_1\partial_\chi\mathcal{A}_{\alpha\beta\delta}\partial^\delta\mathcal{A}^{\alpha\beta\chi}-2c_1\partial_\chi\mathcal{A}_{\beta\alpha\delta}\partial^\delta\mathcal{A}^{\alpha\beta\chi}+4c_1\partial_\chi\mathcal{A}_{\beta\delta\alpha}\partial^\delta\mathcal{A}^{\alpha\beta\chi}- \\
& 4c_1\partial_\delta\mathcal{A}_{\alpha\beta\chi}\partial^\delta\mathcal{A}^{\alpha\beta\chi}-4c_1\partial_\delta\mathcal{A}_{\alpha\chi\beta}\partial^\delta\mathcal{A}^{\alpha\beta\chi}-2c_1\partial_\delta\mathcal{A}_{\beta\alpha\chi}\partial^\delta\mathcal{A}^{\alpha\beta\chi}-2c_1\partial_\delta\mathcal{A}_{\beta\chi\alpha}\partial^\delta\mathcal{A}^{\alpha\beta\chi}- \\
& 2c_1\partial_\delta\mathcal{A}_{\chi\beta\alpha}\partial^\delta\mathcal{A}^{\alpha\beta\chi}+2c_1\partial_\beta\mathcal{A}_{\delta\alpha}{}^{\beta}\partial^\delta\mathcal{A}^{\chi\alpha}{}_{\chi}+2c_1\partial_\beta\mathcal{A}_{\delta\alpha}{}^{\beta}\partial^\delta\mathcal{A}^{\chi}{}_{\chi}{}^{\alpha}\big)\Big)[t,x,y,z]\,dz\,dy\,dx\,dt
\end{aligned}
$$

	$^{0^+}\mathcal{T}^{\perp}$	$^{0^+}\mathcal{T}^{\parallel}$	$^{0^+}\mathcal{W}_a{}^{\parallel}$	$^{0^+}\mathcal{W}_s{}^{\perp t}$	$^{0^+}\mathcal{W}_s{}^{\parallel}$	$^{0^+}\mathcal{W}_s{}^{\perp h}$	$^{0^-}\mathcal{W}_a{}^{\parallel}$
$^{0^+}\mathcal{T}^{\perp}\dagger$	$-\frac{12k^2(3a_0+197c_1k^2)}{a_0^2(16+3k^2)^2}$	$\frac{4\sqrt{3}(a_0-65c_1k^2)}{a_0^2(16+3k^2)}$	$\frac{2i\sqrt{6}k}{16a_0+3a_0k^2}$	$-\frac{24ik(3a_0+197c_1k^2)}{a_0^2(16+3k^2)^2}$	$\frac{8ik(19a_0+(3a_0+197c_1)k^2)}{a_0^2(16+3k^2)^2}$	$-\frac{4i\sqrt{2}k(10a_0+(3a_0-394c_1)k^2)}{a_0^2(16+3k^2)^2}$	0
$^{0^+}\mathcal{T}^{\parallel}\dagger$	$\frac{4\sqrt{3}(a_0-65c_1k^2)}{a_0^2(16+3k^2)}$	$\frac{4(a_0-25c_1k^2)}{a_0^2k^2}$	$\frac{2i\sqrt{2}}{a_0k}$	$\frac{8i\sqrt{3}(a_0-65c_1k^2)}{a_0^2k(16+3k^2)}$	$-\frac{8i(a_0-65c_1k^2)}{\sqrt{3}a_0^2k(16+3k^2)}$	$-\frac{8i\sqrt{\frac{2}{3}}(a_0-65c_1k^2)}{a_0^2k(16+3k^2)}$	0
$^{0^+}\mathcal{W}_a{}^{\parallel}\dagger$	$-\frac{2i\sqrt{6}k}{16a_0+3a_0k^2}$	$-\frac{2i\sqrt{2}}{a_0k}$	0	$\frac{4\sqrt{6}}{16a_0+3a_0k^2}$	$-\frac{4\sqrt{\frac{2}{3}}}{16a_0+3a_0k^2}$	$-\frac{8}{\sqrt{3}(16a_0+3a_0k^2)}$	0
$^{0^+}\mathcal{W}_s{}^{\perp t}\dagger$	$\frac{24ik(3a_0+197c_1k^2)}{a_0^2(16+3k^2)^2}$	$-\frac{8i\sqrt{3}(a_0-65c_1k^2)}{a_0^2k(16+3k^2)}$	$\frac{4\sqrt{6}}{16a_0+3a_0k^2}$	$-\frac{48(3a_0+197c_1k^2)}{a_0^2(16+3k^2)^2}$	$\frac{16(19a_0+(3a_0+197c_1)k^2)}{a_0^2(16+3k^2)^2}$	$-\frac{8\sqrt{2}(10a_0+(3a_0-394c_1)k^2)}{a_0^2(16+3k^2)^2}$	0
$^{0^+}\mathcal{W}_s{}^{\parallel}\dagger$	$-\frac{8ik(19a_0+(3a_0+197c_1)k^2)}{a_0^2(16+3k^2)^2}$	$\frac{8i(a_0-65c_1k^2)}{\sqrt{3}a_0^2k(16+3k^2)}$	$-\frac{4\sqrt{\frac{2}{3}}}{16a_0+3a_0k^2}$	$\frac{16(19a_0+(3a_0+197c_1)k^2)}{a_0^2(16+3k^2)^2}$	$-\frac{16(35a_0+(6a_0+197c_1)k^2)}{3a_0^2(16+3k^2)^2}$	$-\frac{8\sqrt{2}(22a_0+(3a_0+394c_1)k^2)}{3a_0^2(16+3k^2)^2}$	0
$^{0^+}\mathcal{W}_s{}^{\perp h}\dagger$	$\frac{4i\sqrt{2}k(10a_0+(3a_0-394c_1)k^2)}{a_0^2(16+3k^2)^2}$	$\frac{8i\sqrt{\frac{2}{3}}(a_0-65c_1k^2)}{a_0^2k(16+3k^2)}$	$-\frac{8}{\sqrt{3}(16a_0+3a_0k^2)}$	$-\frac{8\sqrt{2}(10a_0+(3a_0-394c_1)k^2)}{a_0^2(16+3k^2)^2}$	$-\frac{8\sqrt{2}(22a_0+(3a_0+394c_1)k^2)}{3a_0^2(16+3k^2)^2}$	$\frac{32(13a_0+(3a_0-197c_1)k^2)}{3a_0^2(16+3k^2)^2}$	0
$^{0^-}\mathcal{W}_a{}^{\parallel}\dagger$	0	0	0	0	0	0	$-\frac{2}{a_0-c_1k^2}$

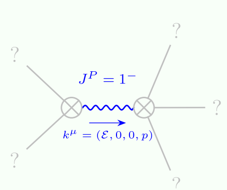
Spin-parity form	Covariant form	Multiplicities
$k\,{}^{0^+}\mathcal{W}_s{}^{\parallel}+2k\,{}^{0^+}\mathcal{W}_s{}^{\perp h}-6i\,{}^{0^+}\mathcal{T}^{\perp}==0$ 2	$\partial_\beta\partial_\alpha\mathcal{T}^{\alpha\beta}+\partial_\chi\partial^\chi\partial_\alpha\mathcal{W}^{\alpha\beta}{}_{\beta}==\partial_\chi\partial_\beta\partial_\alpha\mathcal{W}^{\alpha\beta\chi}$	1
$k\,{}^{0^+}\mathcal{W}_s{}^{\perp t}+2i\,{}^{0^+}\mathcal{T}^{\perp}==0$	$2\partial_\beta\partial_\alpha\mathcal{T}^{\alpha\beta}==\partial_\chi\partial_\beta\partial_\alpha\mathcal{W}^{\alpha\beta\chi}$	1
$6k\,{}^{1^-}\mathcal{W}_a{}^{\perp\alpha}+2k\,{}^{1^-}\mathcal{W}_s{}^{\parallel h\alpha}+k\,{}^{1^-}\mathcal{W}_s{}^{\parallel t\alpha}+3k\,{}^{1^-}\mathcal{W}_s{}^{\perp t\alpha}+12i\,{}^{1^-}\mathcal{T}^{\perp\alpha}==0$	$4\partial_\chi\partial_\beta\partial^\alpha\mathcal{T}^{\beta\chi}+2\partial_\delta\partial^\delta\partial_\chi\partial_\beta\mathcal{W}^{\beta\alpha\chi}+\partial_\delta\partial^\delta\partial_\chi\partial^\chi\mathcal{W}^{\alpha\beta}{}_{\beta}==4\partial_\chi\partial^\chi\partial_\beta\mathcal{T}^{\alpha\beta}+2\partial_\delta\partial_\chi\partial_\beta\partial^\alpha\mathcal{W}^{\beta\chi\delta}+\partial_\delta\partial^\delta\partial_\beta\partial^\alpha\mathcal{W}^{\beta\chi}{}_{\chi}$	3
$3k\,{}^{1^-}\mathcal{W}_a{}^{\perp\alpha}+k\,{}^{1^-}\mathcal{W}_s{}^{\perp t\alpha}+6i\,{}^{1^-}\mathcal{T}^{\perp\alpha}==k\,{}^{1^-}\mathcal{W}_s{}^{\perp h\alpha}$	$2\partial_\chi\partial_\beta\partial^\alpha\mathcal{T}^{\beta\chi}+\partial_\delta\partial^\delta\partial_\chi\partial_\beta\mathcal{W}^{\beta\alpha\chi}==2\partial_\chi\partial^\chi\partial_\beta\mathcal{T}^{\alpha\beta}+\partial_\delta\partial_\chi\partial_\beta\partial^\alpha\mathcal{W}^{\beta\chi\delta}$	3
Total expected gauge generators:		8

	$^{0^+}h^{\perp}$	$^{0^+}h^{\parallel}$	$^{0^+}\mathcal{A}_a{}^{\parallel}$	$^{0^+}\mathcal{A}_s{}^{\perp t}$	$^{0^+}\mathcal{A}_s{}^{\parallel}$	$^{0^+}\mathcal{A}_s{}^{\perp h}$	$^{0^-}\mathcal{A}_a{}^{\parallel}$
$^{0^+}h^{\perp}\dagger$	0	0	0	0	$\frac{i a_0 k}{4}$	$-\frac{i a_0 k}{4\sqrt{2}}$	0
$^{0^+}h^{\parallel}\dagger$	0	0	$\frac{i a_0 k}{2\sqrt{2}}$	0	$-\frac{i a_0 k}{4\sqrt{3}}$	$\frac{i a_0 k}{4\sqrt{6}}$	0
$^{0^+}\mathcal{A}_a{}^{\parallel}\dagger$	0	$-\frac{i a_0 k}{2\sqrt{2}}$	$\frac{1}{2}(-a_0+25c_1k^2)$	0	$10\sqrt{\frac{2}{3}}c_1k^2$	$-\frac{10c_1k^2}{\sqrt{3}}$	0
$^{0^+}\mathcal{A}_s{}^{\perp t}\dagger$	0	0	0	0	$\frac{a_0}{2}$	$-\frac{a_0}{2\sqrt{2}}$	0
$^{0^+}\mathcal{A}_s{}^{\parallel}\dagger$	$-\frac{1}{4}i a_0 k$	$\frac{i a_0 k}{4\sqrt{3}}$	$10\sqrt{\frac{2}{3}}c_1k^2$	$\frac{a_0}{2}$	$\frac{23c_1k^2}{3}$	$-\frac{3a_0+46c_1k^2}{6\sqrt{2}}$	0
$^{0^+}\mathcal{A}_s{}^{\perp h}\dagger$	$\frac{i a_0 k}{4\sqrt{2}}$	$-\frac{i a_0 k}{4\sqrt{6}}$	$-\frac{10c_1k^2}{\sqrt{3}}$	$-\frac{a_0}{2\sqrt{2}}$	$-\frac{3a_0+46c_1k^2}{6\sqrt{2}}$	$\frac{1}{6}(3a_0+23c_1k^2)$	0
$^{0^-}\mathcal{A}_a{}^{\parallel}\dagger$	0	0	0	0	0	0	$\frac{1}{2}(-a_0+c_1k^2)$

	$^{2^+}\mathcal{T}^{\parallel}{}_{\alpha\beta}$	$^{2^+}\mathcal{W}_a{}^{\parallel}{}_{\alpha\beta}$	$^{2^+}\mathcal{W}_s{}^{\parallel}{}_{\alpha\beta}$	$^{2^+}\mathcal{W}_s{}^{\perp}{}_{\alpha\beta}$	$^{2^-}\mathcal{W}_a{}^{\parallel}{}_{\alpha\beta\chi}$	$^{2^-}\mathcal{W}_s{}^{\parallel}{}_{\alpha\beta\chi}$
$^{2^+}\mathcal{T}^{\parallel}\dagger^{\alpha\beta}$	$-\frac{8(a_0+11c_1k^2)}{a_0^2k^2}$	$-\frac{4i\sqrt{2}}{a_0k}$	$\frac{4i(a_0+31c_1k^2)}{\sqrt{3}a_0^2k}$	$\frac{4i\sqrt{\frac{2}{3}}(a_0+31c_1k^2)}{a_0^2k}$	0	0
$^{2^+}\mathcal{W}_a{}^{\parallel}\dagger^{\alpha\beta}$	$\frac{4i\sqrt{2}}{a_0k}$	0	$\frac{2\sqrt{\frac{2}{3}}}{a_0}$	$\frac{4}{\sqrt{3}a_0}$	0	0
$^{2^+}\mathcal{W}_s{}^{\parallel}\dagger^{\alpha\beta}$	$-\frac{4i(a_0+31c_1k^2)}{\sqrt{3}a_0^2k}$	$\frac{2\sqrt{\frac{2}{3}}}{a_0}$	$-\frac{8(a_0+13c_1k^2)}{3a_0^2}$	$-\frac{2\sqrt{2}(a_0+52c_1k^2)}{3a_0^2}$	0	0
$^{2^+}\mathcal{W}_s{}^{\perp}\dagger^{\alpha\beta}$	$-\frac{4i\sqrt{\frac{2}{3}}(a_0+31c_1k^2)}{a_0^2k}$	$\frac{4}{\sqrt{3}a_0}$	$-\frac{2\sqrt{2}(a_0+52c_1k^2)}{3a_0^2}$	$\frac{8(a_0-26c_1k^2)}{3a_0^2}$	0	0
$^{2^-}\mathcal{W}_a{}^{\parallel}\dagger^{\alpha\beta\chi}$	0	0	0	0	$\frac{4}{a_0-c_1k^2}$	0
$^{2^-}\mathcal{W}_s{}^{\parallel}\dagger^{\alpha\beta\chi}$	0	0	0	0	0	$\frac{4}{a_0-5c_1k^2}$

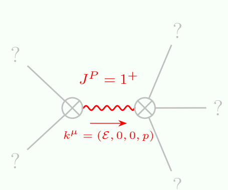
	$^{2^+}h^{\parallel}{}_{\alpha\beta}$	$^{2^+}\mathcal{A}_a{}^{\parallel}{}_{\alpha\beta}$	$^{2^+}\mathcal{A}_s{}^{\parallel}{}_{\alpha\beta}$	$^{2^+}\mathcal{A}_s{}^{\perp}{}_{\alpha\beta}$	$^{2^-}\mathcal{A}_a{}^{\parallel}{}_{\alpha\beta\chi}$	$^{2^-}\mathcal{A}_s{}^{\parallel}{}_{\alpha\beta\chi}$
$^{2^+}h^{\parallel}\dagger^{\alpha\beta}$	0	$-\frac{i a_0 k}{4\sqrt{2}}$	$-\frac{i a_0 k}{4\sqrt{3}}$	$\frac{i a_0 k}{4\sqrt{6}}$	0	0
$^{2^+}\mathcal{A}_a{}^{\parallel}\dagger^{\alpha\beta}$	$\frac{i a_0 k}{4\sqrt{2}}$	$\frac{1}{4}(a_0+11c_1k^2)$	$-5\sqrt{\frac{2}{3}}c_1k^2$	$\frac{5c_1k^2}{\sqrt{3}}$	0	0
$^{2^+}\mathcal{A}_s{}^{\parallel}\dagger^{\alpha\beta}$	$\frac{i a_0 k}{4\sqrt{3}}$	$-5\sqrt{\frac{2}{3}}c_1k^2$	$\frac{1}{6}(-3a_0+c_1k^2)$	$-\frac{c_1k^2}{6\sqrt{2}}$	0	0
$^{2^+}\mathcal{A}_s{}^{\perp}\dagger^{\alpha\beta}$	$-\frac{i a_0 k}{4\sqrt{6}}$	$\frac{5c_1k^2}{\sqrt{3}}$	$-\frac{c_1k^2}{6\sqrt{2}}$	$\frac{1}{12}(3a_0+c_1k^2)$	0	0
$^{2^-}\mathcal{A}_a{}^{\parallel}\dagger^{\alpha\beta\chi}$	0	0	0	0	$\frac{1}{4}(a_0-c_1k^2)$	0
$^{2^-}\mathcal{A}_s{}^{\parallel}\dagger^{\alpha\beta\chi}$	0	0	0	0	0	$\frac{1}{4}(a_0-5c_1k^2)$

Massive and massless spectra



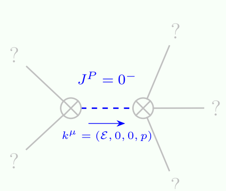
Massive particle

Pole residue:	$\frac{3287a_0+323862c_1}{35937c_1(a_0+66c_1)}>0$
Square mass:	$\frac{a_0}{33c_1}>0$
Spin:	1
Parity:	Odd



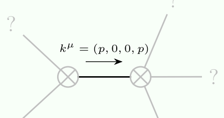
Massive particle

Pole residue:	$-\frac{4164}{24389c_1}>0$
Square mass:	$\frac{a_0}{29c_1}>0$
Spin:	1
Parity:	Even



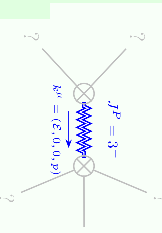
Massive particle

Pole residue:	$-\frac{2}{c_1}>0$
Square mass:	$\frac{a_0}{c_1}>0$
Spin:	0
Parity:	Odd



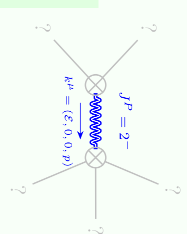
Massless particle

Pole residue:	$\frac{1}{a_0}>0$
Polarisations:	2



Massive particle

Pole residue:	$\frac{2}{7c_1}>0$
Square mass:	$-\frac{a_0}{7c_1}>0$
Spin:	3
Parity:	Odd



Massive particle

Pole residue:	$\frac{4}{5c_1}>0$
Square mass:	$\frac{a_0}{5c_1}>0$
Spin:	2
Parity:	Odd

Unitarity conditions

(Demonstrably impossible)