PSALTer results panel

$$\mathcal{S}==\iiiint\Big(\tfrac{1}{4}\Big(2\,\dot{a}_{0}\,\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}\,\mathcal{A}^{\chi}{}_{\beta\chi}+\mathcal{A}^{\alpha\beta\chi}\big(-2\,\dot{a}_{0}\,\mathcal{A}_{\beta\chi\alpha}+4\,\mathcal{W}_{\alpha\beta\chi}\big)+4\,\mathcal{T}^{\alpha\beta}\,h_{\alpha\beta}-\dot{a}_{0}\,h^{\chi}{}_{\chi}\,\partial_{\beta}\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}+\dot{a}_{0}\,h^{\chi}{}_{\chi}\,\partial_{\beta}\mathcal{A}^{\alpha\beta}{}_{\alpha}-2\,\dot{a}_{0}\,h_{\alpha\chi}\,\partial_{\beta}\mathcal{A}^{\alpha\beta\chi}+2\,\dot{a}_{0}\,h_{\beta\chi}\,\partial^{\chi}\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}-\dot{c}_{1}\,\partial_{\beta}\mathcal{A}^{\delta}{}_{\delta\chi}\,\partial^{\chi}\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}-\dot{c}_{1}\,\partial_{\chi}\mathcal{A}^{\delta}{}_{\delta\beta}\,\partial^{\chi}\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}-\dot{c}_{1}\,\partial_{\beta}\mathcal{A}^{\alpha\beta\chi}\,\partial_{\delta}\mathcal{A}_{\alpha}{}^{\delta}{}_{\chi}+2\,\dot{c}_{1}\,\partial^{\chi}\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}\,\partial_{\delta}\mathcal{A}_{\beta}{}^{\delta}{}_{\chi}-\dot{c}_{1}\,\partial_{\beta}\mathcal{A}^{\alpha\beta\chi}\,\partial_{\delta}\mathcal{A}_{\chi}{}^{\delta}{}_{\alpha}+2\,\dot{c}_{1}\,\partial^{\chi}\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}\,\partial_{\delta}\mathcal{A}_{\chi}{}^{\delta}{}_{\beta}\Big)\Big)[t,\,x,\,y,\,z]\,dz\,dy\,dx\,dt$$

Wave operator

$$\begin{array}{c|cccccc|c}
 & {}^{0^+}_{\bullet}h^{\perp} & {}^{0^+}_{\bullet}h^{\Vert} & {}^{0^+}_{\bullet}\mathcal{A}_{a}{}^{\Vert} & {}^{0^+}_{\bullet}\mathcal{A}_{s}{}^{\perp t} & {}^{0^+}_{\bullet}\mathcal{A}_{s}{}^{\Vert} & {}^{0^+}_{\bullet}\mathcal{A}_{s}{}^{\perp h} & {}^{0^-}_{\bullet}\mathcal{A}_{a}{}^{\Vert} \\ \hline
{}^{0^+}_{\bullet}h^{\perp}\,\dagger & 0 & 0 & 0 & 0 & \frac{i\,\dot{a}_{0}\,k}{4} & -\frac{i\,\dot{a}_{0}\,k}{4\sqrt{2}} & 0 \\
{}^{0^+}_{\bullet}h^{\Vert}\,\dagger & 0 & 0 & \frac{i\,\dot{a}_{0}\,k}{2\sqrt{2}} & 0 & -\frac{i\,\dot{a}_{0}\,k}{4\sqrt{3}} & \frac{i\,\dot{a}_{0}\,k}{4\sqrt{6}} & 0 \\
{}^{0^+}_{\bullet}\mathcal{A}_{a}{}^{\Vert}\,\dagger & 0 & -\frac{i\,\dot{a}_{0}\,k}{2\sqrt{2}} & -\frac{\dot{a}_{0}}{2}-\dot{c}_{1}\,k^{2} & 0 & \frac{\dot{c}_{1}\,k^{2}}{\sqrt{6}} & -\frac{\dot{c}_{1}\,k^{2}}{2\sqrt{3}} & 0 \\
{}^{0^+}_{\bullet}\mathcal{A}_{s}{}^{\perp t}\,\dagger & 0 & 0 & 0 & 0 & \frac{\dot{a}_{0}}{2} & -\frac{\dot{a}_{0}}{2\sqrt{2}} & 0 \\
{}^{0^+}_{\bullet}\mathcal{A}_{s}{}^{\Vert}\,\dagger & -\frac{1}{4}\,i\,\dot{a}_{0}\,k & \frac{i\,\dot{a}_{0}\,k}{4\sqrt{3}} & \frac{\dot{c}_{1}\,k^{2}}{\sqrt{6}} & \frac{\dot{a}_{0}}{2} & -\frac{2\,\dot{c}_{1}\,k^{2}}{3} & \frac{-3\,\dot{a}_{0}+4\,\dot{c}_{1}\,k^{2}}{6\sqrt{2}} & 0 \\
{}^{0^+}_{\bullet}\mathcal{A}_{s}{}^{\perp h}\,\dagger & \frac{i\,\dot{a}_{0}\,k}{4\sqrt{2}} & -\frac{i\,\dot{a}_{0}\,k}{4\sqrt{6}} & -\frac{\dot{c}_{1}\,k^{2}}{2\sqrt{3}} & -\frac{\dot{a}_{0}}{2\sqrt{2}} & \frac{-3\,\dot{a}_{0}+4\,\dot{c}_{1}\,k^{2}}{6\sqrt{2}} & \frac{1}{6}\left(3\,\dot{a}_{0}-2\,\dot{c}_{1}\,k^{2}\right) & 0 \\ \hline
{}^{0^-}_{\bullet}\mathcal{A}_{a}{}^{\Vert}\,\dagger & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\dot{a}_{0}}{2}
\end{array}$$

$$\begin{array}{c|ccc|ccccccc}
 & {}^{1^+}_{\bullet}\mathcal{A}_{a}{}^{\Vert}{}_{\alpha\beta} & {}^{1^+}_{\bullet}\mathcal{A}_{a}{}^{\perp}{}_{\alpha\beta} & {}^{1^+}_{\bullet}\mathcal{A}_{s}{}^{\perp}{}_{\alpha\beta} & {}^{1^-}_{\bullet}h^{\perp}{}_{\alpha} & {}^{1^-}_{\bullet}\mathcal{A}_{a}{}^{\Vert}{}_{\alpha} & {}^{1^-}_{\bullet}\mathcal{A}_{a}{}^{\perp}{}_{\alpha} & {}^{1^-}_{\bullet}\mathcal{A}_{s}{}^{\perp t}{}_{\alpha} & {}^{1^-}_{\bullet}\mathcal{A}_{s}{}^{\Vert t}{}_{\alpha} & {}^{1^-}_{\bullet}\mathcal{A}_{s}{}^{\perp h}{}_{\alpha} & {}^{1^-}_{\bullet}\mathcal{A}_{s}{}^{\Vert h}{}_{\alpha} \\ \hline
{}^{1^+}_{\bullet}\mathcal{A}_{a}{}^{\Vert}\,\dagger^{\alpha\beta} & -\frac{\dot{a}_{0}}{4} & -\frac{\dot{a}_{0}}{2\sqrt{2}} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
{}^{1^+}_{\bullet}\mathcal{A}_{a}{}^{\perp}\,\dagger^{\alpha\beta} & -\frac{\dot{a}_{0}}{2\sqrt{2}} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
{}^{1^+}_{\bullet}\mathcal{A}_{s}{}^{\perp}\,\dagger^{\alpha\beta} & 0 & 0 & \frac{\dot{a}_{0}}{4} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \hline
{}^{1^-}_{\bullet}h^{\perp}\,\dagger^{\alpha} & 0 & 0 & 0 & 0 & \frac{i\,\dot{a}_{0}\,k}{4\sqrt{2}} & 0 & -\frac{i\,\dot{a}_{0}\,k}{4\sqrt{6}} & \frac{1}{4}\,i\sqrt{\frac{5}{6}}\,\dot{a}_{0}\,k & -\frac{i\,\dot{a}_{0}\,k}{4\sqrt{3}} & -\frac{i\,\dot{a}_{0}\,k}{4\sqrt{6}} \\
{}^{1^-}_{\bullet}\mathcal{A}_{a}{}^{\Vert}\,\dagger^{\alpha} & 0 & 0 & 0 & -\frac{i\,\dot{a}_{0}\,k}{4\sqrt{2}} & \frac{1}{4}\left(-\dot{a}_{0}-\dot{c}_{1}\,k^{2}\right) & \frac{\dot{a}_{0}}{2\sqrt{2}} & \frac{\dot{c}_{1}\,k^{2}}{4\sqrt{3}} & -\frac{1}{4}\sqrt{\frac{5}{3}}\,\dot{c}_{1}\,k^{2} & \frac{\dot{c}_{1}\,k^{2}}{2\sqrt{6}} & \frac{\dot{c}_{1}\,k^{2}}{4\sqrt{3}} \\
{}^{1^-}_{\bullet}\mathcal{A}_{a}{}^{\perp}\,\dagger^{\alpha} & 0 & 0 & 0 & 0 & \frac{\dot{a}_{0}}{2\sqrt{2}} & 0 & 0 & 0 & 0 & 0 \\
{}^{1^-}_{\bullet}\mathcal{A}_{s}{}^{\perp t}\,\dagger^{\alpha} & 0 & 0 & 0 & \frac{i\,\dot{a}_{0}\,k}{4\sqrt{6}} & \frac{\dot{c}_{1}\,k^{2}}{4\sqrt{3}} & 0 & \frac{1}{12}\left(-4\,\dot{a}_{0}-\dot{c}_{1}\,k^{2}\right) & \frac{1}{12}\sqrt{5}\left(2\,\dot{a}_{0}+\dot{c}_{1}\,k^{2}\right) & -\frac{\dot{a}_{0}+\dot{c}_{1}\,k^{2}}{6\sqrt{2}} & \frac{1}{12}\left(-2\,\dot{a}_{0}-\dot{c}_{1}\,k^{2}\right) \\
{}^{1^-}_{\bullet}\mathcal{A}_{s}{}^{\Vert t}\,\dagger^{\alpha} & 0 & 0 & 0 & -\frac{1}{4}\,i\sqrt{\frac{5}{6}}\,\dot{a}_{0}\,k & -\frac{1}{4}\sqrt{\frac{5}{3}}\,\dot{c}_{1}\,k^{2} & 0 & \frac{1}{12}\sqrt{5}\left(2\,\dot{a}_{0}+\dot{c}_{1}\,k^{2}\right) & \frac{1}{12}\left(4\,\dot{a}_{0}-5\,\dot{c}_{1}\,k^{2}\right) & -\frac{1}{6}\sqrt{\frac{5}{2}}\left(\dot{a}_{0}-\dot{c}_{1}\,k^{2}\right) & \frac{1}{12}\sqrt{5}\left(-2\,\dot{a}_{0}+\dot{c}_{1}\,k^{2}\right) \\
{}^{1^-}_{\bullet}\mathcal{A}_{s}{}^{\perp h}\,\dagger^{\alpha} & 0 & 0 & 0 & \frac{i\,\dot{a}_{0}\,k}{4\sqrt{3}} & \frac{\dot{c}_{1}\,k^{2}}{2\sqrt{6}} & 0 & -\frac{\dot{a}_{0}+\dot{c}_{1}\,k^{2}}{6\sqrt{2}} & -\frac{1}{6}\sqrt{\frac{5}{2}}\left(\dot{a}_{0}-\dot{c}_{1}\,k^{2}\right) & \frac{1}{6}\left(2\,\dot{a}_{0}-\dot{c}_{1}\,k^{2}\right) & \frac{\dot{a}_{0}-\dot{c}_{1}\,k^{2}}{6\sqrt{2}} \\
{}^{1^-}_{\bullet}\mathcal{A}_{s}{}^{\Vert h}\,\dagger^{\alpha} & 0 & 0 & 0 & \frac{i\,\dot{a}_{0}\,k}{4\sqrt{6}} & \frac{\dot{c}_{1}\,k^{2}}{4\sqrt{3}} & 0 & \frac{1}{12}\left(-2\,\dot{a}_{0}-\dot{c}_{1}\,k^{2}\right) & \frac{1}{12}\sqrt{5}\left(-2\,\dot{a}_{0}+\dot{c}_{1}\,k^{2}\right) & \frac{\dot{a}_{0}-\dot{c}_{1}\,k^{2}}{6\sqrt{2}} & \frac{1}{12}\left(5\,\dot{a}_{0}-\dot{c}_{1}\,k^{2}\right)
\end{array}$$

$$\begin{array}{c|cccc|cc}
 & {}^{2^+}_{\bullet}h^{\Vert}{}_{\alpha\beta} & {}^{2^+}_{\bullet}\mathcal{A}_{a}{}^{\Vert}{}_{\alpha\beta} & {}^{2^+}_{\bullet}\mathcal{A}_{s}{}^{\Vert}{}_{\alpha\beta} & {}^{2^+}_{\bullet}\mathcal{A}_{s}{}^{\perp}{}_{\alpha\beta} & {}^{2^-}_{\bullet}\mathcal{A}_{a}{}^{\Vert}{}_{\alpha\beta\chi} & {}^{2^-}_{\bullet}\mathcal{A}_{s}{}^{\Vert}{}_{\alpha\beta\chi} \\ \hline
{}^{2^+}_{\bullet}h^{\Vert}\,\dagger^{\alpha\beta} & 0 & -\frac{i\,\dot{a}_{0}\,k}{4\sqrt{2}} & -\frac{i\,\dot{a}_{0}\,k}{4\sqrt{3}} & \frac{i\,\dot{a}_{0}\,k}{4\sqrt{6}} & 0 & 0 \\
{}^{2^+}_{\bullet}\mathcal{A}_{a}{}^{\Vert}\,\dagger^{\alpha\beta} & \frac{i\,\dot{a}_{0}\,k}{4\sqrt{2}} & \frac{1}{4}\left(\dot{a}_{0}-\dot{c}_{1}\,k^{2}\right) & -\frac{\dot{c}_{1}\,k^{2}}{2\sqrt{6}} & \frac{\dot{c}_{1}\,k^{2}}{4\sqrt{3}} & 0 & 0 \\
{}^{2^+}_{\bullet}\mathcal{A}_{s}{}^{\Vert}\,\dagger^{\alpha\beta} & \frac{i\,\dot{a}_{0}\,k}{4\sqrt{3}} & -\frac{\dot{c}_{1}\,k^{2}}{2\sqrt{6}} & \frac{1}{6}\left(-3\,\dot{a}_{0}-\dot{c}_{1}\,k^{2}\right) & \frac{\dot{c}_{1}\,k^{2}}{6\sqrt{2}} & 0 & 0 \\
{}^{2^+}_{\bullet}\mathcal{A}_{s}{}^{\perp}\,\dagger^{\alpha\beta} & -\frac{i\,\dot{a}_{0}\,k}{4\sqrt{6}} & \frac{\dot{c}_{1}\,k^{2}}{4\sqrt{3}} & \frac{\dot{c}_{1}\,k^{2}}{6\sqrt{2}} & \frac{1}{12}\left(3\,\dot{a}_{0}-\dot{c}_{1}\,k^{2}\right) & 0 & 0 \\ \hline
{}^{2^-}_{\bullet}\mathcal{A}_{a}{}^{\Vert}\,\dagger^{\alpha\beta\chi} & 0 & 0 & 0 & 0 & \frac{\dot{a}_{0}}{4} & 0 \\
{}^{2^-}_{\bullet}\mathcal{A}_{s}{}^{\Vert}\,\dagger^{\alpha\beta\chi} & 0 & 0 & 0 & 0 & 0 & \frac{\dot{a}_{0}}{4}
\end{array}$$

$$\begin{array}{c|c}
 & {}^{3^-}_{\bullet}\mathcal{A}_{s}{}^{\Vert}{}_{\alpha\beta\chi} \\ \hline
{}^{3^-}_{\bullet}\mathcal{A}_{s}{}^{\Vert}\,\dagger^{\alpha\beta\chi} & -\frac{\dot{a}_{0}}{2}
\end{array}$$

Saturated propagator

$$\begin{array}{c|cccccc|c}
 & {}^{0^+}_{\bullet}\mathcal{T}^{\perp} & {}^{0^+}_{\bullet}\mathcal{T}^{\Vert} & {}^{0^+}_{\bullet}\mathcal{W}_{a}{}^{\Vert} & {}^{0^+}_{\bullet}\mathcal{W}_{s}{}^{\perp t} & {}^{0^+}_{\bullet}\mathcal{W}_{s}{}^{\Vert} & {}^{0^+}_{\bullet}\mathcal{W}_{s}{}^{\perp h} & {}^{0^-}_{\bullet}\mathcal{W}_{a}{}^{\Vert} \\ \hline
{}^{0^+}_{\bullet}\mathcal{T}^{\perp}\,\dagger & -\frac{36\,k^{2}\left(\dot{a}_{0}-2\,\dot{c}_{1}\,k^{2}\right)}{\dot{a}_{0}^{2}\left(16+3\,k^{2}\right)^{2}} & \frac{4\sqrt{3}}{16\,\dot{a}_{0}+3\,\dot{a}_{0}\,k^{2}} & \frac{2\,i\sqrt{6}\,k}{16\,\dot{a}_{0}+3\,\dot{a}_{0}\,k^{2}} & -\frac{72\,i\,k\left(\dot{a}_{0}-2\,\dot{c}_{1}\,k^{2}\right)}{\dot{a}_{0}^{2}\left(16+3\,k^{2}\right)^{2}} & \frac{8\,i\,k\left(19\,\dot{a}_{0}+3\left(\dot{a}_{0}-2\,\dot{c}_{1}\right)k^{2}\right)}{\dot{a}_{0}^{2}\left(16+3\,k^{2}\right)^{2}} & -\frac{4\,i\sqrt{2}\,k\left(10\,\dot{a}_{0}+3\left(\dot{a}_{0}+4\,\dot{c}_{1}\right)k^{2}\right)}{\dot{a}_{0}^{2}\left(16+3\,k^{2}\right)^{2}} & 0 \\
{}^{0^+}_{\bullet}\mathcal{T}^{\Vert}\,\dagger & \frac{4\sqrt{3}}{16\,\dot{a}_{0}+3\,\dot{a}_{0}\,k^{2}} & \frac{4\left(2\,\dot{c}_{1}+\frac{\dot{a}_{0}}{k^{2}}\right)}{\dot{a}_{0}^{2}} & \frac{2\,i\sqrt{2}}{\dot{a}_{0}\,k} & \frac{8\,i\sqrt{3}}{16\,\dot{a}_{0}\,k+3\,\dot{a}_{0}\,k^{3}} & -\frac{8\,i}{\sqrt{3}\left(16\,\dot{a}_{0}\,k+3\,\dot{a}_{0}\,k^{3}\right)} & -\frac{8\,i\sqrt{\frac{2}{3}}}{16\,\dot{a}_{0}\,k+3\,\dot{a}_{0}\,k^{3}} & 0 \\
{}^{0^+}_{\bullet}\mathcal{W}_{a}{}^{\Vert}\,\dagger & -\frac{2\,i\sqrt{6}\,k}{16\,\dot{a}_{0}+3\,\dot{a}_{0}\,k^{2}} & -\frac{2\,i\sqrt{2}}{\dot{a}_{0}\,k} & 0 & \frac{4\sqrt{6}}{16\,\dot{a}_{0}+3\,\dot{a}_{0}\,k^{2}} & -\frac{4\sqrt{\frac{2}{3}}}{16\,\dot{a}_{0}+3\,\dot{a}_{0}\,k^{2}} & -\frac{8}{\sqrt{3}\left(16\,\dot{a}_{0}+3\,\dot{a}_{0}\,k^{2}\right)} & 0 \\
{}^{0^+}_{\bullet}\mathcal{W}_{s}{}^{\perp t}\,\dagger & \frac{72\,i\,k\left(\dot{a}_{0}-2\,\dot{c}_{1}\,k^{2}\right)}{\dot{a}_{0}^{2}\left(16+3\,k^{2}\right)^{2}} & -\frac{8\,i\sqrt{3}}{16\,\dot{a}_{0}\,k+3\,\dot{a}_{0}\,k^{3}} & \frac{4\sqrt{6}}{16\,\dot{a}_{0}+3\,\dot{a}_{0}\,k^{2}} & -\frac{144\left(\dot{a}_{0}-2\,\dot{c}_{1}\,k^{2}\right)}{\dot{a}_{0}^{2}\left(16+3\,k^{2}\right)^{2}} & \frac{304\,\dot{a}_{0}+48\left(\dot{a}_{0}-2\,\dot{c}_{1}\right)k^{2}}{\dot{a}_{0}^{2}\left(16+3\,k^{2}\right)^{2}} & -\frac{8\sqrt{2}\left(10\,\dot{a}_{0}+3\left(\dot{a}_{0}+4\,\dot{c}_{1}\right)k^{2}\right)}{\dot{a}_{0}^{2}\left(16+3\,k^{2}\right)^{2}} & 0 \\
{}^{0^+}_{\bullet}\mathcal{W}_{s}{}^{\Vert}\,\dagger & -\frac{8\,i\,k\left(19\,\dot{a}_{0}+3\left(\dot{a}_{0}-2\,\dot{c}_{1}\right)k^{2}\right)}{\dot{a}_{0}^{2}\left(16+3\,k^{2}\right)^{2}} & \frac{8\,i}{\sqrt{3}\left(16\,\dot{a}_{0}\,k+3\,\dot{a}_{0}\,k^{3}\right)} & -\frac{4\sqrt{\frac{2}{3}}}{16\,\dot{a}_{0}+3\,\dot{a}_{0}\,k^{2}} & \frac{304\,\dot{a}_{0}+48\left(\dot{a}_{0}-2\,\dot{c}_{1}\right)k^{2}}{\dot{a}_{0}^{2}\left(16+3\,k^{2}\right)^{2}} & \frac{-560\,\dot{a}_{0}+96\left(-\dot{a}_{0}+\dot{c}_{1}\right)k^{2}}{3\,\dot{a}_{0}^{2}\left(16+3\,k^{2}\right)^{2}} & -\frac{8\sqrt{2}\left(22\,\dot{a}_{0}+3\left(\dot{a}_{0}-4\,\dot{c}_{1}\right)k^{2}\right)}{3\,\dot{a}_{0}^{2}\left(16+3\,k^{2}\right)^{2}} & 0 \\
{}^{0^+}_{\bullet}\mathcal{W}_{s}{}^{\perp h}\,\dagger & \frac{4\,i\sqrt{2}\,k\left(10\,\dot{a}_{0}+3\left(\dot{a}_{0}+4\,\dot{c}_{1}\right)k^{2}\right)}{\dot{a}_{0}^{2}\left(16+3\,k^{2}\right)^{2}} & \frac{8\,i\sqrt{\frac{2}{3}}}{16\,\dot{a}_{0}\,k+3\,\dot{a}_{0}\,k^{3}} & -\frac{8}{\sqrt{3}\left(16\,\dot{a}_{0}+3\,\dot{a}_{0}\,k^{2}\right)} & -\frac{8\sqrt{2}\left(10\,\dot{a}_{0}+3\left(\dot{a}_{0}+4\,\dot{c}_{1}\right)k^{2}\right)}{\dot{a}_{0}^{2}\left(16+3\,k^{2}\right)^{2}} & -\frac{8\sqrt{2}\left(22\,\dot{a}_{0}+3\left(\dot{a}_{0}-4\,\dot{c}_{1}\right)k^{2}\right)}{3\,\dot{a}_{0}^{2}\left(16+3\,k^{2}\right)^{2}} & \frac{416\,\dot{a}_{0}+96\left(\dot{a}_{0}+2\,\dot{c}_{1}\right)k^{2}}{3\,\dot{a}_{0}^{2}\left(16+3\,k^{2}\right)^{2}} & 0 \\ \hline
{}^{0^-}_{\bullet}\mathcal{W}_{a}{}^{\Vert}\,\dagger & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2}{\dot{a}_{0}}
\end{array}$$

$$\begin{array}{c|ccc|ccccccc}
 & {}^{1^+}_{\bullet}\mathcal{W}_{a}{}^{\Vert}{}_{\alpha\beta} & {}^{1^+}_{\bullet}\mathcal{W}_{a}{}^{\perp}{}_{\alpha\beta} & {}^{1^+}_{\bullet}\mathcal{W}_{s}{}^{\perp}{}_{\alpha\beta} & {}^{1^-}_{\bullet}\mathcal{T}^{\perp}{}_{\alpha} & {}^{1^-}_{\bullet}\mathcal{W}_{a}{}^{\Vert}{}_{\alpha} & {}^{1^-}_{\bullet}\mathcal{W}_{a}{}^{\perp}{}_{\alpha} & {}^{1^-}_{\bullet}\mathcal{W}_{s}{}^{\perp t}{}_{\alpha} & {}^{1^-}_{\bullet}\mathcal{W}_{s}{}^{\Vert t}{}_{\alpha} & {}^{1^-}_{\bullet}\mathcal{W}_{s}{}^{\perp h}{}_{\alpha} & {}^{1^-}_{\bullet}\mathcal{W}_{s}{}^{\Vert h}{}_{\alpha} \\ \hline
{}^{1^+}_{\bullet}\mathcal{W}_{a}{}^{\Vert}\,\dagger^{\alpha\beta} & 0 & -\frac{2\sqrt{2}}{\dot{a}_{0}} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
{}^{1^+}_{\bullet}\mathcal{W}_{a}{}^{\perp}\,\dagger^{\alpha\beta} & -\frac{2\sqrt{2}}{\dot{a}_{0}} & \frac{2}{\dot{a}_{0}} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
{}^{1^+}_{\bullet}\mathcal{W}_{s}{}^{\perp}\,\dagger^{\alpha\beta} & 0 & 0 & \frac{4}{\dot{a}_{0}} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \hline
{}^{1^-}_{\bullet}\mathcal{T}^{\perp}\,\dagger^{\alpha} & 0 & 0 & 0 & \frac{2\,k^{2}\left(\dot{a}_{0}+4\,\dot{c}_{1}\,k^{2}\right)}{\dot{a}_{0}^{2}\left(2+k^{2}\right)^{2}} & \frac{2\,i\sqrt{2}\,k}{2\,\dot{a}_{0}+\dot{a}_{0}\,k^{2}} & \frac{i\,k\left(4\,\dot{a}_{0}+\left(\dot{a}_{0}+8\,\dot{c}_{1}\right)k^{2}\right)}{\dot{a}_{0}^{2}\left(2+k^{2}\right)^{2}} & -\frac{i\left(6\,\dot{a}_{0}\,k+\left(5\,\dot{a}_{0}-16\,\dot{c}_{1}\right)k^{3}\right)}{\sqrt{6}\,\dot{a}_{0}^{2}\left(2+k^{2}\right)^{2}} & \frac{i\sqrt{\frac{5}{6}}\,k}{2\,\dot{a}_{0}+\dot{a}_{0}\,k^{2}} & -\frac{2\,i\,k\left(3\,\dot{a}_{0}+\left(\dot{a}_{0}+4\,\dot{c}_{1}\right)k^{2}\right)}{\sqrt{3}\,\dot{a}_{0}^{2}\left(2+k^{2}\right)^{2}} & \frac{i\sqrt{\frac{2}{3}}\,k}{2\,\dot{a}_{0}+\dot{a}_{0}\,k^{2}} \\
{}^{1^-}_{\bullet}\mathcal{W}_{a}{}^{\Vert}\,\dagger^{\alpha} & 0 & 0 & 0 & -\frac{2\,i\sqrt{2}\,k}{2\,\dot{a}_{0}+\dot{a}_{0}\,k^{2}} & 0 & \frac{\sqrt{2}\left(4+k^{2}\right)}{\dot{a}_{0}\left(2+k^{2}\right)} & -\frac{2\,k^{2}}{\sqrt{3}\left(2\,\dot{a}_{0}+\dot{a}_{0}\,k^{2}\right)} & 0 & \frac{\sqrt{\frac{2}{3}}\,k^{2}}{2\,\dot{a}_{0}+\dot{a}_{0}\,k^{2}} & 0 \\
{}^{1^-}_{\bullet}\mathcal{W}_{a}{}^{\perp}\,\dagger^{\alpha} & 0 & 0 & 0 & -\frac{i\left(4\,\dot{a}_{0}\,k+\left(\dot{a}_{0}+8\,\dot{c}_{1}\right)k^{3}\right)}{\dot{a}_{0}^{2}\left(2+k^{2}\right)^{2}} & \frac{\sqrt{2}\left(4+k^{2}\right)}{\dot{a}_{0}\left(2+k^{2}\right)} & \frac{16\,\dot{c}_{1}\,k^{2}+\dot{a}_{0}\left(4+k^{2}\right)^{2}}{2\,\dot{a}_{0}^{2}\left(2+k^{2}\right)^{2}} & \frac{k^{2}\left(32\,\dot{c}_{1}+\dot{a}_{0}\left(-2+k^{2}\right)\right)}{2\sqrt{6}\,\dot{a}_{0}^{2}\left(2+k^{2}\right)^{2}} & -\frac{\sqrt{\frac{5}{6}}\,k^{2}}{4\,\dot{a}_{0}+2\,\dot{a}_{0}\,k^{2}} & \frac{k^{2}\left(-8\,\dot{c}_{1}+\dot{a}_{0}\left(5+2\,k^{2}\right)\right)}{\sqrt{3}\,\dot{a}_{0}^{2}\left(2+k^{2}\right)^{2}} & -\frac{k^{2}}{\sqrt{6}\left(2\,\dot{a}_{0}+\dot{a}_{0}\,k^{2}\right)} \\
{}^{1^-}_{\bullet}\mathcal{W}_{s}{}^{\perp t}\,\dagger^{\alpha} & 0 & 0 & 0 & \frac{i\left(6\,\dot{a}_{0}\,k+\left(5\,\dot{a}_{0}-16\,\dot{c}_{1}\right)k^{3}\right)}{\sqrt{6}\,\dot{a}_{0}^{2}\left(2+k^{2}\right)^{2}} & -\frac{2\,k^{2}}{\sqrt{3}\left(2\,\dot{a}_{0}+\dot{a}_{0}\,k^{2}\right)} & \frac{k^{2}\left(32\,\dot{c}_{1}+\dot{a}_{0}\left(-2+k^{2}\right)\right)}{2\sqrt{6}\,\dot{a}_{0}^{2}\left(2+k^{2}\right)^{2}} & \frac{64\,\dot{c}_{1}\,k^{2}-\dot{a}_{0}\left(76+52\,k^{2}+3\,k^{4}\right)}{12\,\dot{a}_{0}^{2}\left(2+k^{2}\right)^{2}} & \frac{\sqrt{5}\left(10+3\,k^{2}\right)}{12\,\dot{a}_{0}\left(2+k^{2}\right)} & \frac{-2\,\dot{a}_{0}+\left(\dot{a}_{0}-16\,\dot{c}_{1}\right)k^{2}}{3\sqrt{2}\,\dot{a}_{0}^{2}\left(2+k^{2}\right)^{2}} & \frac{1}{-2\,\dot{a}_{0}-\frac{8\,\dot{a}_{0}}{2+3\,k^{2}}} \\
{}^{1^-}_{\bullet}\mathcal{W}_{s}{}^{\Vert t}\,\dagger^{\alpha} & 0 & 0 & 0 & -\frac{i\sqrt{\frac{5}{6}}\,k}{2\,\dot{a}_{0}+\dot{a}_{0}\,k^{2}} & 0 & -\frac{\sqrt{\frac{5}{6}}\,k^{2}}{4\,\dot{a}_{0}+2\,\dot{a}_{0}\,k^{2}} & \frac{\sqrt{5}\left(10+3\,k^{2}\right)}{12\,\dot{a}_{0}\left(2+k^{2}\right)} & \frac{1}{12\,\dot{a}_{0}} & -\frac{\sqrt{\frac{5}{2}}}{6\,\dot{a}_{0}+3\,\dot{a}_{0}\,k^{2}} & -\frac{\sqrt{5}}{6\,\dot{a}_{0}} \\
{}^{1^-}_{\bullet}\mathcal{W}_{s}{}^{\perp h}\,\dagger^{\alpha} & 0 & 0 & 0 & \frac{2\,i\,k\left(3\,\dot{a}_{0}+\left(\dot{a}_{0}+4\,\dot{c}_{1}\right)k^{2}\right)}{\sqrt{3}\,\dot{a}_{0}^{2}\left(2+k^{2}\right)^{2}} & \frac{\sqrt{\frac{2}{3}}\,k^{2}}{2\,\dot{a}_{0}+\dot{a}_{0}\,k^{2}} & \frac{k^{2}\left(-8\,\dot{c}_{1}+\dot{a}_{0}\left(5+2\,k^{2}\right)\right)}{\sqrt{3}\,\dot{a}_{0}^{2}\left(2+k^{2}\right)^{2}} & \frac{-2\,\dot{a}_{0}+\left(\dot{a}_{0}-16\,\dot{c}_{1}\right)k^{2}}{3\sqrt{2}\,\dot{a}_{0}^{2}\left(2+k^{2}\right)^{2}} & -\frac{\sqrt{\frac{5}{2}}}{6\,\dot{a}_{0}+3\,\dot{a}_{0}\,k^{2}} & \frac{8\,\dot{c}_{1}\,k^{2}+\dot{a}_{0}\left(34+28\,k^{2}+6\,k^{4}\right)}{3\,\dot{a}_{0}^{2}\left(2+k^{2}\right)^{2}} & -\frac{\sqrt{2}\left(7+3\,k^{2}\right)}{3\,\dot{a}_{0}\left(2+k^{2}\right)} \\
{}^{1^-}_{\bullet}\mathcal{W}_{s}{}^{\Vert h}\,\dagger^{\alpha} & 0 & 0 & 0 & -\frac{i\sqrt{\frac{2}{3}}\,k}{2\,\dot{a}_{0}+\dot{a}_{0}\,k^{2}} & 0 & -\frac{k^{2}}{\sqrt{6}\left(2\,\dot{a}_{0}+\dot{a}_{0}\,k^{2}\right)} & \frac{1}{-2\,\dot{a}_{0}-\frac{8\,\dot{a}_{0}}{2+3\,k^{2}}} & -\frac{\sqrt{5}}{6\,\dot{a}_{0}} & -\frac{\sqrt{2}\left(7+3\,k^{2}\right)}{3\,\dot{a}_{0}\left(2+k^{2}\right)} & \frac{5}{3\,\dot{a}_{0}}
\end{array}$$

$$\begin{array}{c|cccc|cc}
 & {}^{2^+}_{\bullet}\mathcal{T}^{\Vert}{}_{\alpha\beta} & {}^{2^+}_{\bullet}\mathcal{W}_{a}{}^{\Vert}{}_{\alpha\beta} & {}^{2^+}_{\bullet}\mathcal{W}_{s}{}^{\Vert}{}_{\alpha\beta} & {}^{2^+}_{\bullet}\mathcal{W}_{s}{}^{\perp}{}_{\alpha\beta} & {}^{2^-}_{\bullet}\mathcal{W}_{a}{}^{\Vert}{}_{\alpha\beta\chi} & {}^{2^-}_{\bullet}\mathcal{W}_{s}{}^{\Vert}{}_{\alpha\beta\chi} \\ \hline
{}^{2^+}_{\bullet}\mathcal{T}^{\Vert}\,\dagger^{\alpha\beta} & \frac{8\left(\dot{c}_{1}-\frac{\dot{a}_{0}}{k^{2}}\right)}{\dot{a}_{0}^{2}} & -\frac{4\,i\sqrt{2}}{\dot{a}_{0}\,k} & \frac{4\,i}{\sqrt{3}\,\dot{a}_{0}\,k} & \frac{4\,i\sqrt{\frac{2}{3}}}{\dot{a}_{0}\,k} & 0 & 0 \\
{}^{2^+}_{\bullet}\mathcal{W}_{a}{}^{\Vert}\,\dagger^{\alpha\beta} & \frac{4\,i\sqrt{2}}{\dot{a}_{0}\,k} & 0 & \frac{2\sqrt{\frac{2}{3}}}{\dot{a}_{0}} & \frac{4}{\sqrt{3}\,\dot{a}_{0}} & 0 & 0 \\
{}^{2^+}_{\bullet}\mathcal{W}_{s}{}^{\Vert}\,\dagger^{\alpha\beta} & -\frac{4\,i}{\sqrt{3}\,\dot{a}_{0}\,k} & \frac{2\sqrt{\frac{2}{3}}}{\dot{a}_{0}} & -\frac{8}{3\,\dot{a}_{0}} & -\frac{2\sqrt{2}}{3\,\dot{a}_{0}} & 0 & 0 \\
{}^{2^+}_{\bullet}\mathcal{W}_{s}{}^{\perp}\,\dagger^{\alpha\beta} & -\frac{4\,i\sqrt{\frac{2}{3}}}{\dot{a}_{0}\,k} & \frac{4}{\sqrt{3}\,\dot{a}_{0}} & -\frac{2\sqrt{2}}{3\,\dot{a}_{0}} & \frac{8}{3\,\dot{a}_{0}} & 0 & 0 \\ \hline
{}^{2^-}_{\bullet}\mathcal{W}_{a}{}^{\Vert}\,\dagger^{\alpha\beta\chi} & 0 & 0 & 0 & 0 & \frac{4}{\dot{a}_{0}} & 0 \\
{}^{2^-}_{\bullet}\mathcal{W}_{s}{}^{\Vert}\,\dagger^{\alpha\beta\chi} & 0 & 0 & 0 & 0 & 0 & \frac{4}{\dot{a}_{0}}
\end{array}$$

$$\begin{array}{c|c}
 & {}^{3^-}_{\bullet}\mathcal{W}_{s}{}^{\Vert}{}_{\alpha\beta\chi} \\ \hline
{}^{3^-}_{\bullet}\mathcal{W}_{s}{}^{\Vert}\,\dagger^{\alpha\beta\chi} & -\frac{2}{\dot{a}_{0}}
\end{array}$$

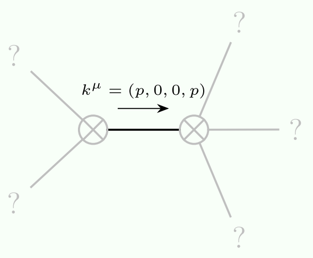
Source constraints

Spin-parity form	Covariant form	Multiplicities
$k\,{}^{0^+}_{\bullet}\mathcal{W}_{s}{}^{\Vert}+2\,k\,{}^{0^+}_{\bullet}\mathcal{W}_{s}{}^{\perp h}-6\,i\,{}^{0^+}_{\bullet}\mathcal{T}^{\perp}==0$	$2\,\partial_{\beta}\partial_{\alpha}\mathcal{T}^{\alpha\beta}+\partial_{\chi}\partial^{\chi}\partial_{\alpha}\mathcal{W}^{\alpha\beta}{}_{\beta}==\partial_{\chi}\partial_{\beta}\partial_{\alpha}\mathcal{W}^{\alpha\beta\chi}$	1
$k\,{}^{0^+}_{\bullet}\mathcal{W}_{s}{}^{\perp t}+2\,i\,{}^{0^+}_{\bullet}\mathcal{T}^{\perp}==0$	$2\,\partial_{\beta}\partial_{\alpha}\mathcal{T}^{\alpha\beta}==\partial_{\chi}\partial_{\beta}\partial_{\alpha}\mathcal{W}^{\alpha\beta\chi}$	1
$6\,k\,{}^{1^-}_{\bullet}\mathcal{W}_{a}{}^{\perp\alpha}+2\,k\,{}^{1^-}_{\bullet}\mathcal{W}_{s}{}^{\Vert h\alpha}+k\,{}^{1^-}_{\bullet}\mathcal{W}_{s}{}^{\Vert t\alpha}+3\,k\,{}^{1^-}_{\bullet}\mathcal{W}_{s}{}^{\perp t\alpha}+12\,i\,{}^{1^-}_{\bullet}\mathcal{T}^{\perp\alpha}==0$	$4\,\partial_{\chi}\partial_{\beta}\partial^{\alpha}\mathcal{T}^{\beta\chi}+2\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial_{\beta}\mathcal{W}^{\beta\alpha\chi}+\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}\mathcal{W}^{\alpha\beta}{}_{\beta}==4\,\partial_{\chi}\partial^{\chi}\partial_{\beta}\mathcal{T}^{\alpha\beta}+2\,\partial_{\delta}\partial_{\chi}\partial_{\beta}\partial^{\alpha}\mathcal{W}^{\beta\chi\delta}+\partial_{\delta}\partial^{\delta}\partial_{\beta}\partial^{\alpha}\mathcal{W}^{\beta\chi}{}_{\chi}$	3
$k\,{}^{1^-}_{\bullet}\mathcal{W}_{s}{}^{\perp h\alpha}-6\,i\,{}^{1^-}_{\bullet}\mathcal{T}^{\perp\alpha}==k\left(3\,{}^{1^-}_{\bullet}\mathcal{W}_{a}{}^{\perp\alpha}+{}^{1^-}_{\bullet}\mathcal{W}_{s}{}^{\perp t\alpha}\right)$	$2\,\partial_{\chi}\partial_{\beta}\partial^{\alpha}\mathcal{T}^{\beta\chi}+\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial_{\beta}\mathcal{W}^{\beta\alpha\chi}==2\,\partial_{\chi}\partial^{\chi}\partial_{\beta}\mathcal{T}^{\alpha\beta}+\partial_{\delta}\partial_{\chi}\partial_{\beta}\partial^{\alpha}\mathcal{W}^{\beta\chi\delta}$	3
Total expected gauge generators:		8

Massive spectrum

(No particles)

Massless spectrum



Massless particle

Pole residue:	$-\frac{p^{2}}{\dot{a}_{0}}>0$
Polarisations:	2

Unitarity conditions

$\dot{a}_{0}<0$