Lagrangian density

$$
\begin{aligned}
&-\tfrac{1}{2}a_0\,\Gamma^{\alpha\beta\chi}\,\Gamma_{\beta\chi\alpha}+\tfrac{1}{2}a_0\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\Gamma^{\chi}{}_{\beta\chi}-\tfrac{1}{2}a_0\,\Gamma^{\alpha\beta\chi}\,\partial_{\beta}h_{\alpha\chi}-\\
&\tfrac{1}{4}a_0\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\partial_{\beta}h^{\chi}{}_{\chi}+\tfrac{1}{4}a_0\,\Gamma^{\alpha\beta}{}_{\alpha}\,\partial_{\beta}h^{\chi}{}_{\chi}-\tfrac{1}{4}a_0\,h^{\chi}{}_{\chi}\,\partial_{\beta}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}+\tfrac{1}{4}a_0\,h^{\chi}{}_{\chi}\,\partial_{\beta}\Gamma^{\alpha\beta}{}_{\alpha}-\\
&\tfrac{1}{2}a_0\,h_{\alpha\chi}\,\partial_{\beta}\Gamma^{\alpha\beta\chi}+\tfrac{11}{2}c_1\,\partial^{\alpha}\Gamma^{\chi\delta}{}_{\delta}\partial_{\beta}\Gamma_{\chi\alpha}{}^{\beta}+\tfrac{1}{2}c_1\,\partial^{\alpha}\Gamma_{\chi\alpha}{}^{\beta}\partial_{\beta}\Gamma^{\chi\delta}{}_{\delta}-\\
&19\,c_1\,\partial^{\alpha}\Gamma^{\chi\delta}{}_{\chi}\partial_{\beta}\Gamma_{\delta\alpha}{}^{\beta}+\tfrac{1}{4}a_0\,h^{\alpha\beta}\,\partial_{\beta}\partial_{\alpha}h^{\chi}{}_{\chi}-\tfrac{1}{8}a_0\,\partial_{\beta}h^{\chi}{}_{\chi}\partial^{\beta}h^{\alpha}{}_{\alpha}+\\
&\tfrac{1}{2}a_0\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\partial_{\chi}h_{\beta}{}^{\chi}+\tfrac{1}{4}a_0\,\partial^{\beta}h^{\alpha}{}_{\alpha}\partial_{\chi}h_{\beta}{}^{\chi}+\tfrac{37}{4}c_1\,\partial_{\beta}\partial_{\alpha}h^{\delta}{}_{\delta}\partial_{\chi}\Gamma^{\alpha\beta\chi}+\\
&\tfrac{3}{4}c_1\,\partial_{\beta}\Gamma^{\alpha\beta\chi}\partial_{\chi}\partial_{\alpha}h^{\delta}{}_{\delta}-\tfrac{1}{2}a_0\,h^{\alpha\beta}\,\partial_{\chi}\partial_{\beta}h_{\alpha}{}^{\chi}+\tfrac{1}{4}a_0\,h^{\alpha}{}_{\alpha}\,\partial_{\chi}\partial_{\beta}h^{\beta\chi}+\\
&\tfrac{1}{4}a_0\,h^{\alpha\beta}\,\partial_{\chi}\partial^{\chi}h_{\alpha\beta}-\tfrac{1}{4}a_0\,h^{\alpha}{}_{\alpha}\,\partial_{\chi}\partial^{\chi}h^{\beta}{}_{\beta}-\tfrac{1}{4}a_0\,\partial_{\beta}h_{\alpha\chi}\partial^{\chi}h^{\alpha\beta}+\\
&\tfrac{1}{8}a_0\,\partial_{\chi}h_{\alpha\beta}\partial^{\chi}h^{\alpha\beta}+\tfrac{1}{2}a_0\,h_{\beta\chi}\,\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}-\tfrac{1}{2}c_1\,\partial_{\beta}\Gamma_{\chi}{}^{\delta}{}_{\delta}\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}-\\
&\tfrac{1}{2}c_1\,\partial_{\beta}\Gamma^{\delta}{}_{\delta\chi}\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}+\tfrac{1}{2}c_1\,\partial_{\chi}\Gamma_{\beta}{}^{\delta}{}_{\delta}\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}-\tfrac{1}{2}c_1\,\partial_{\chi}\Gamma^{\delta}{}_{\beta\delta}\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}-\\
&\tfrac{1}{2}c_1\,\partial_{\chi}\Gamma^{\delta}{}_{\delta\beta}\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}-\tfrac{3}{4}c_1\,\partial_{\chi}\partial_{\beta}h^{\delta}{}_{\delta}\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}-\tfrac{11}{2}c_1\,\partial_{\beta}\Gamma_{\chi}{}^{\delta}{}_{\delta}\partial^{\chi}\Gamma^{\alpha\beta}{}_{\alpha}+\\
&\tfrac{19}{2}c_1\,\partial_{\beta}\Gamma^{\delta}{}_{\chi\delta}\partial^{\chi}\Gamma^{\alpha\beta}{}_{\alpha}+\tfrac{11}{2}c_1\,\partial_{\chi}\Gamma_{\beta}{}^{\delta}{}_{\delta}\partial^{\chi}\Gamma^{\alpha\beta}{}_{\alpha}-\tfrac{1}{2}c_1\,\partial_{\chi}\Gamma^{\delta}{}_{\beta\delta}\partial^{\chi}\Gamma^{\alpha\beta}{}_{\alpha}-\\
&\tfrac{37}{4}c_1\,\partial_{\chi}\partial_{\beta}h^{\delta}{}_{\delta}\partial^{\chi}\Gamma^{\alpha\beta}{}_{\alpha}+c_1\,\partial_{\alpha}\Gamma_{\chi}{}^{\delta}{}_{\delta}\partial^{\chi}\Gamma^{\alpha\beta}{}_{\beta}-c_1\,\partial_{\chi}\Gamma_{\alpha}{}^{\delta}{}_{\delta}\partial^{\chi}\Gamma^{\alpha\beta}{}_{\beta}-\\
&\tfrac{9}{2}c_1\,\partial_{\chi}\partial_{\beta}h^{\delta}{}_{\delta}\partial^{\chi}\partial_{\alpha}h^{\alpha\beta}+\tfrac{17}{8}c_1\,\partial_{\chi}\partial_{\beta}h^{\delta}{}_{\delta}\partial^{\chi}\partial^{\beta}h^{\alpha}{}_{\alpha}-\tfrac{1}{2}c_1\,\partial_{\chi}\Gamma^{\alpha\beta\chi}\partial_{\delta}\Gamma_{\alpha\beta}{}^{\delta}-\\
&\tfrac{1}{2}c_1\,\partial_{\beta}\Gamma^{\alpha\beta\chi}\partial_{\delta}\Gamma_{\alpha\chi}{}^{\delta}-\tfrac{1}{2}c_1\,\partial_{\beta}\Gamma^{\alpha\beta\chi}\partial_{\delta}\Gamma_{\alpha}{}^{\delta}{}_{\chi}+\tfrac{19}{2}c_1\,\partial_{\chi}\Gamma^{\alpha\beta\chi}\partial_{\delta}\Gamma_{\beta\alpha}{}^{\delta}+\\
&c_1\,\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\partial_{\delta}\Gamma_{\beta}{}^{\delta}{}_{\chi}+\tfrac{1}{2}c_1\,\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\partial_{\delta}\Gamma_{\chi\beta}{}^{\delta}+\tfrac{1}{2}c_1\,\partial^{\chi}\Gamma^{\alpha\beta}{}_{\alpha}\partial_{\delta}\Gamma_{\chi\beta}{}^{\delta}-\\
&\tfrac{1}{2}c_1\,\partial_{\beta}\Gamma^{\alpha\beta\chi}\partial_{\delta}\Gamma_{\chi}{}^{\delta}{}_{\alpha}+\tfrac{1}{2}c_1\,\partial^{\chi}\Gamma_{\beta\alpha}{}^{\beta}\partial_{\delta}\Gamma_{\chi}{}^{\delta\alpha}+c_1\,\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\partial_{\delta}\Gamma_{\chi}{}^{\delta}{}_{\beta}-\\
&\tfrac{1}{2}c_1\,\partial_{\beta}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\partial_{\delta}\Gamma^{\chi}{}_{\chi}{}^{\delta}+c_1\,\partial_{\beta}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\partial_{\delta}\Gamma^{\chi\delta}{}_{\chi}-\tfrac{1}{2}c_1\,\partial_{\beta}\Gamma^{\alpha\beta}{}_{\alpha}\partial_{\delta}\Gamma^{\chi\delta}{}_{\chi}-\\
&\tfrac{37}{4}c_1\,\partial_{\chi}\Gamma^{\alpha\beta\chi}\partial_{\delta}\partial_{\alpha}h_{\beta}{}^{\delta}-\tfrac{3}{4}c_1\,\partial_{\beta}\Gamma^{\alpha\beta\chi}\partial_{\delta}\partial_{\alpha}h_{\chi}{}^{\delta}-\tfrac{37}{4}c_1\,\partial_{\chi}\Gamma^{\alpha\beta\chi}\partial_{\delta}\partial_{\beta}h_{\alpha}{}^{\delta}+\\
&\tfrac{3}{8}c_1\,\partial_{\chi}\partial^{\chi}h^{\alpha\beta}\partial_{\delta}\partial_{\beta}h_{\alpha}{}^{\delta}+\tfrac{37}{8}c_1\,\partial_{\alpha}\partial^{\chi}h^{\alpha\beta}\partial_{\delta}\partial_{\beta}h_{\chi}{}^{\delta}+\tfrac{3}{4}c_1\,\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\partial_{\delta}\partial_{\beta}h_{\chi}{}^{\delta}+\\
&\tfrac{37}{4}c_1\,\partial^{\chi}\Gamma^{\alpha\beta}{}_{\alpha}\partial_{\delta}\partial_{\beta}h_{\chi}{}^{\delta}-\tfrac{3}{8}c_1\,\partial^{\chi}\partial_{\alpha}h^{\alpha\beta}\partial_{\delta}\partial_{\beta}h_{\chi}{}^{\delta}+\tfrac{13}{4}c_1\,\partial^{\chi}\partial^{\beta}h^{\alpha}{}_{\alpha}\partial_{\delta}\partial_{\beta}h_{\chi}{}^{\delta}-\\
&\tfrac{3}{4}c_1\,\partial_{\beta}\Gamma^{\alpha\beta\chi}\partial_{\delta}\partial_{\chi}h_{\alpha}{}^{\delta}-\tfrac{43}{8}c_1\,\partial_{\alpha}\partial^{\chi}h^{\alpha\beta}\partial_{\delta}\partial_{\chi}h_{\beta}{}^{\delta}+\tfrac{3}{4}c_1\,\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\partial_{\delta}\partial_{\chi}h_{\beta}{}^{\delta}+\\
&\tfrac{37}{4}c_1\,\partial^{\chi}\Gamma^{\alpha\beta}{}_{\alpha}\partial_{\delta}\partial_{\chi}h_{\beta}{}^{\delta}+\tfrac{77}{8}c_1\,\partial^{\chi}\partial_{\alpha}h^{\alpha\beta}\partial_{\delta}\partial_{\chi}h_{\beta}{}^{\delta}-\tfrac{29}{4}c_1\,\partial^{\chi}\partial^{\beta}h^{\alpha}{}_{\alpha}\partial_{\delta}\partial_{\chi}h_{\beta}{}^{\delta}+\\
&c_1\,\partial_{\beta}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\partial_{\delta}\partial_{\chi}h^{\chi\delta}-c_1\,\partial_{\beta}\Gamma^{\alpha\beta}{}_{\alpha}\partial_{\delta}\partial_{\chi}h^{\chi\delta}-\tfrac{1}{2}c_1\,\partial_{\beta}\partial_{\alpha}h^{\alpha\beta}\partial_{\delta}\partial_{\chi}h^{\chi\delta}+\\
&c_1\,\partial_{\beta}\partial^{\beta}h^{\alpha}{}_{\alpha}\partial_{\delta}\partial_{\chi}h^{\chi\delta}+\tfrac{37}{4}c_1\,\partial_{\chi}\Gamma^{\alpha\beta\chi}\partial_{\delta}\partial^{\delta}h_{\alpha\beta}+\tfrac{17}{8}c_1\,\partial_{\chi}\partial^{\chi}h^{\alpha\beta}\partial_{\delta}\partial^{\delta}h_{\alpha\beta}+\\
&\tfrac{3}{4}c_1\,\partial_{\beta}\Gamma^{\alpha\beta\chi}\partial_{\delta}\partial^{\delta}h_{\alpha\chi}+\tfrac{1}{4}c_1\,\partial_{\alpha}\partial^{\chi}h^{\alpha\beta}\partial_{\delta}\partial^{\delta}h_{\beta\chi}-\tfrac{3}{4}c_1\,\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\partial_{\delta}\partial^{\delta}h_{\beta\chi}-\\
&\tfrac{37}{4}c_1\,\partial^{\chi}\Gamma^{\alpha\beta}{}_{\alpha}\partial_{\delta}\partial^{\delta}h_{\beta\chi}-\tfrac{73}{8}c_1\,\partial^{\chi}\partial_{\alpha}h^{\alpha\beta}\partial_{\delta}\partial^{\delta}h_{\beta\chi}+\tfrac{17}{4}c_1\,\partial^{\chi}\partial^{\beta}h^{\alpha}{}_{\alpha}\partial_{\delta}\partial^{\delta}h_{\beta\chi}-\\
&c_1\,\partial_{\beta}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\partial_{\delta}\partial^{\delta}h^{\chi}{}_{\chi}+c_1\,\partial_{\beta}\Gamma^{\alpha\beta}{}_{\alpha}\partial_{\delta}\partial^{\delta}h^{\chi}{}_{\chi}-\tfrac{1}{2}c_1\,\partial_{\beta}\partial^{\beta}h^{\alpha}{}_{\alpha}\partial_{\delta}\partial^{\delta}h^{\chi}{}_{\chi}+\\
&\tfrac{1}{2}c_1\,\partial_{\alpha}\Gamma_{\beta\chi\delta}\partial^{\delta}\Gamma^{\alpha\beta\chi}+c_1\,\partial_{\alpha}\Gamma_{\beta\delta\chi}\partial^{\delta}\Gamma^{\alpha\beta\chi}+c_1\,\partial_{\alpha}\Gamma_{\chi\beta\delta}\partial^{\delta}\Gamma^{\alpha\beta\chi}+\\
&\tfrac{1}{2}c_1\,\partial_{\alpha}\Gamma_{\chi\delta\beta}\partial^{\delta}\Gamma^{\alpha\beta\chi}+c_1\,\partial_{\alpha}\Gamma_{\delta\beta\chi}\partial^{\delta}\Gamma^{\alpha\beta\chi}+c_1\,\partial_{\alpha}\Gamma_{\delta\chi\beta}\partial^{\delta}\Gamma^{\alpha\beta\chi}-\\
&\tfrac{1}{2}c_1\,\partial_{\beta}\Gamma_{\alpha\chi\delta}\partial^{\delta}\Gamma^{\alpha\beta\chi}-\tfrac{1}{2}c_1\,\partial_{\beta}\Gamma_{\alpha\delta\chi}\partial^{\delta}\Gamma^{\alpha\beta\chi}-\tfrac{1}{2}c_1\,\partial_{\beta}\Gamma_{\chi\delta\alpha}\partial^{\delta}\Gamma^{\alpha\beta\chi}-\\
&\tfrac{3}{2}c_1\,\partial_{\beta}\partial_{\alpha}h_{\chi\delta}\partial^{\delta}\Gamma^{\alpha\beta\chi}-\tfrac{1}{2}c_1\,\partial_{\chi}\Gamma_{\alpha\beta\delta}\partial^{\delta}\Gamma^{\alpha\beta\chi}-\tfrac{1}{2}c_1\,\partial_{\chi}\Gamma_{\beta\alpha\delta}\partial^{\delta}\Gamma^{\alpha\beta\chi}+\\
&c_1\,\partial_{\chi}\Gamma_{\beta\delta\alpha}\partial^{\delta}\Gamma^{\alpha\beta\chi}+\tfrac{3}{2}c_1\,\partial_{\chi}\partial_{\alpha}h_{\beta\delta}\partial^{\delta}\Gamma^{\alpha\beta\chi}-c_1\,\partial_{\delta}\Gamma_{\alpha\beta\chi}\partial^{\delta}\Gamma^{\alpha\beta\chi}-\\
&c_1\,\partial_{\delta}\Gamma_{\alpha\chi\beta}\partial^{\delta}\Gamma^{\alpha\beta\chi}-\tfrac{1}{2}c_1\,\partial_{\delta}\Gamma_{\beta\alpha\chi}\partial^{\delta}\Gamma^{\alpha\beta\chi}-\tfrac{1}{2}c_1\,\partial_{\delta}\Gamma_{\beta\chi\alpha}\partial^{\delta}\Gamma^{\alpha\beta\chi}-\\
&\tfrac{1}{2}c_1\,\partial_{\delta}\Gamma_{\chi\beta\alpha}\partial^{\delta}\Gamma^{\alpha\beta\chi}+\tfrac{3}{2}c_1\,\partial_{\delta}\partial_{\beta}h_{\alpha\chi}\partial^{\delta}\Gamma^{\alpha\beta\chi}-\tfrac{3}{2}c_1\,\partial_{\delta}\partial_{\chi}h_{\alpha\beta}\partial^{\delta}\Gamma^{\alpha\beta\chi}-\\
&\tfrac{11}{2}c_1\,\partial_{\beta}\Gamma_{\delta\alpha}{}^{\beta}\partial^{\delta}\Gamma^{\alpha\chi}{}_{\chi}-\tfrac{1}{2}c_1\,\partial^{\alpha}\Gamma_{\delta\alpha}{}^{\beta}\partial^{\delta}\Gamma_{\beta}{}^{\chi}{}_{\chi}+\tfrac{1}{2}c_1\,\partial_{\beta}\Gamma_{\delta\alpha}{}^{\beta}\partial^{\delta}\Gamma^{\chi\alpha}{}_{\chi}-\\
&\tfrac{3}{4}c_1\,\partial_{\beta}\partial_{\alpha}h_{\chi\delta}\partial^{\delta}\partial^{\chi}h^{\alpha\beta}+\tfrac{3}{2}c_1\,\partial_{\chi}\partial_{\beta}h_{\alpha\delta}\partial^{\delta}\partial^{\chi}h^{\alpha\beta}-\tfrac{3}{4}c_1\,\partial_{\delta}\partial_{\chi}h_{\alpha\beta}\partial^{\delta}\partial^{\chi}h^{\alpha\beta}
\end{aligned}
$$

Added source term: $h^{\alpha\beta}\,\mathcal{T}_{\alpha\beta}+\Gamma^{\alpha\beta\chi}\,\Delta_{\alpha\beta\chi}$

	$\Delta^{\#1}_{1^+\alpha\beta}$	$\Delta^{\#2}_{1^+\alpha\beta}$	$\Delta^{\#3}_{1^+\alpha\beta}$	$\Delta^{\#1}_{1^-\alpha}$	$\Delta^{\#2}_{1^-\alpha}$	$\Delta^{\#3}_{1^-\alpha}$	$\Delta^{\#4}_{1^-\alpha}$	$\Delta^{\#5}_{1^-\alpha}$	$\Delta^{\#6}_{1^-\alpha}$	$\mathcal{T}^{\#1}_{1^-\alpha}$
$\Delta^{\#1}_{1^+}{}^{\dagger\alpha\beta}$	0	$-\frac{2\sqrt{2}}{a_0}$	0	0	0	0	0	0	0	0
$\Delta^{\#2}_{1^+}{}^{\dagger\alpha\beta}$	$-\frac{2\sqrt{2}}{a_0}$	$\frac{2(a_0^2-14a_0c_1k^2-35c_1^2k^4)}{a_0^2(a_0-29c_1k^2)}$	$\frac{40\sqrt{2}c_1k^2}{a_0^2-29a_0c_1k^2}$	0	0	0	0	0	0	0
$\Delta^{\#3}_{1^+}{}^{\dagger\alpha\beta}$	0	$\frac{40\sqrt{2}c_1k^2}{a_0^2-29a_0c_1k^2}$	$\frac{4}{a_0-29c_1k^2}$	0	0	0	0	0	0	0
$\Delta^{\#1}_{1^-}{}^{\dagger\alpha}$	0	0	0	0	$\frac{2\sqrt{2}}{a_0}$	0	0	0	0	0
$\Delta^{\#2}_{1^-}{}^{\dagger\alpha}$	0	0	0	$\frac{2\sqrt{2}}{a_0}$	$\frac{2(a_0^2-30a_0c_1k^2+401c_1^2k^4)}{a_0^2(a_0-33c_1k^2)}$	$\frac{5\sqrt{\frac{2}{3}}c_1k^2(7a_0-236c_1k^2)}{a_0^2(a_0-33c_1k^2)}$	$-\frac{5\sqrt{\frac{10}{3}}c_1k^2}{a_0^2-33a_0c_1k^2}$	$\frac{10c_1k^2(-11a_0+118c_1k^2)}{\sqrt{3}a_0^2(a_0-33c_1k^2)}$	$\frac{50\sqrt{\frac{2}{3}}c_1k^2}{a_0^2-33a_0c_1k^2}$	0
$\Delta^{\#3}_{1^-}{}^{\dagger\alpha}$	0	0	0	0	$\frac{5\sqrt{\frac{2}{3}}c_1k^2(7a_0-236c_1k^2)}{a_0^2(a_0-33c_1k^2)}$	$\frac{-19a_0^2+472a_0c_1k^2+5120c_1^2k^4}{12a_0^2(a_0-33c_1k^2)}$	$\frac{\sqrt{5}(5a_0-164c_1k^2)}{12a_0(a_0-33c_1k^2)}$	$-\frac{a_0^2-118a_0c_1k^2+2560c_1^2k^4}{6\sqrt{2}a_0^2(a_0-33c_1k^2)}$	$-\frac{a_0-28c_1k^2}{6a_0^2-198a_0c_1k^2}$	0
$\Delta^{\#4}_{1^-}{}^{\dagger\alpha}$	0	0	0	0	$-\frac{5\sqrt{\frac{10}{3}}c_1k^2}{a_0^2-33a_0c_1k^2}$	$\frac{\sqrt{5}(5a_0-164c_1k^2)}{12a_0(a_0-33c_1k^2)}$	$\frac{1}{12a_0-396c_1k^2}$	$-\frac{\sqrt{\frac{5}{2}}(a_0-82c_1k^2)}{6a_0(a_0-33c_1k^2)}$	$-\frac{\sqrt{5}}{6(a_0-33c_1k^2)}$	0
$\Delta^{\#5}_{1^-}{}^{\dagger\alpha}$	0	0	0	0	$\frac{10c_1k^2(-11a_0+118c_1k^2)}{\sqrt{3}a_0^2(a_0-33c_1k^2)}$	$-\frac{a_0^2-118a_0c_1k^2+2560c_1^2k^4}{6\sqrt{2}a_0^2(a_0-33c_1k^2)}$	$-\frac{\sqrt{\frac{5}{2}}(a_0-82c_1k^2)}{6a_0(a_0-33c_1k^2)}$	$\frac{17a_0^2-236a_0c_1k^2+1280c_1^2k^4}{6a_0^2(a_0-33c_1k^2)}$	$-\frac{7(a_0+2c_1k^2)}{3\sqrt{2}a_0(a_0-33c_1k^2)}$	0
$\Delta^{\#6}_{1^-}{}^{\dagger\alpha}$	0	0	0	0	$\frac{50\sqrt{\frac{2}{3}}c_1k^2}{a_0^2-33a_0c_1k^2}$	$-\frac{a_0-28c_1k^2}{6a_0^2-198a_0c_1k^2}$	$-\frac{\sqrt{5}}{6(a_0-33c_1k^2)}$	$-\frac{7(a_0+2c_1k^2)}{3\sqrt{2}a_0(a_0-33c_1k^2)}$	$\frac{5}{3(a_0-33c_1k^2)}$	0
$\mathcal{T}^{\#1}_{1^-}{}^{\dagger\alpha}$	0	0	0	0	0	0	0	0	0	0

	$\Gamma^{\#1}_{1^+\alpha\beta}$	$\Gamma^{\#2}_{1^+\alpha\beta}$	$\Gamma^{\#3}_{1^+\alpha\beta}$	$\Gamma^{\#1}_{1^-\alpha}$	$\Gamma^{\#2}_{1^-\alpha}$	$\Gamma^{\#3}_{1^-\alpha}$	$\Gamma^{\#4}_{1^-\alpha}$	$\Gamma^{\#5}_{1^-\alpha}$	$\Gamma^{\#6}_{1^-\alpha}$	$h^{\#1}_{1^-\alpha}$
$\Gamma^{\#1}_{1^+}{}^{\dagger\alpha\beta}$	$\frac{1}{4}(-a_0-15c_1k^2)$	$-\frac{a_0}{2\sqrt{2}}$	$5c_1k^2$	0	0	0	0	0	0	0
$\Gamma^{\#2}_{1^+}{}^{\dagger\alpha\beta}$	$-\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	0	0	0	0
$\Gamma^{\#3}_{1^+}{}^{\dagger\alpha\beta}$	$5c_1k^2$	0	$\frac{1}{4}(a_0-29c_1k^2)$	0	0	0	0	0	0	0
$\Gamma^{\#1}_{1^-}{}^{\dagger\alpha}$	0	0	0	$\frac{1}{4}(-a_0-3c_1k^2)$	$\frac{a_0}{2\sqrt{2}}$	$\frac{5}{2}\sqrt{3}c_1k^2$	$-\frac{5}{2}\sqrt{\frac{5}{3}}c_1k^2$	$5\sqrt{\frac{3}{2}}c_1k^2$	$-\frac{5c_1k^2}{\sqrt{3}}$	0
$\Gamma^{\#2}_{1^-}{}^{\dagger\alpha}$	0	0	0	$\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	0
$\Gamma^{\#3}_{1^-}{}^{\dagger\alpha}$	0	0	0	$\frac{5}{2}\sqrt{3}c_1k^2$	0	$-\frac{a_0}{3}$	$\frac{1}{6}\sqrt{5}(a_0-8c_1k^2)$	$-\frac{a_0}{6\sqrt{2}}$	$\frac{1}{6}(-a_0+20c_1k^2)$	0
$\Gamma^{\#4}_{1^-}{}^{\dagger\alpha}$	0	0	0	$-\frac{5}{2}\sqrt{\frac{5}{3}}c_1k^2$	0	$\frac{1}{6}\sqrt{5}(a_0-8c_1k^2)$	$\frac{1}{3}(a_0+7c_1k^2)$	$-\frac{1}{6}\sqrt{\frac{5}{2}}(a_0+16c_1k^2)$	$-\frac{1}{6}\sqrt{5}(a_0-5c_1k^2)$	0
$\Gamma^{\#5}_{1^-}{}^{\dagger\alpha}$	0	0	0	$5\sqrt{\frac{3}{2}}c_1k^2$	0	$-\frac{a_0}{6\sqrt{2}}$	$-\frac{1}{6}\sqrt{\frac{5}{2}}(a_0+16c_1k^2)$	$\frac{a_0}{3}$	$\frac{a_0+40c_1k^2}{6\sqrt{2}}$	0
$\Gamma^{\#6}_{1^-}{}^{\dagger\alpha}$	0	0	0	$-\frac{5c_1k^2}{\sqrt{3}}$	0	$\frac{1}{6}(-a_0+20c_1k^2)$	$-\frac{1}{6}\sqrt{5}(a_0-5c_1k^2)$	$\frac{a_0+40c_1k^2}{6\sqrt{2}}$	$\frac{5}{12}(a_0-17c_1k^2)$	0
$h^{\#1}_{1^-}{}^{\dagger\alpha}$	0	0	0	0	0	0	0	0	0	0

	$\Gamma^{\#1}_{0^+}$	$\Gamma^{\#2}_{0^+}$	$\Gamma^{\#3}_{0^+}$	$\Gamma^{\#4}_{0^+}$	$h^{\#1}_{0^+}$	$h^{\#2}_{0^+}$	$\Gamma^{\#1}_{0^-}$
$\Gamma^{\#1}_{0^+}{}^{\dagger}$	$\frac{1}{2}(-a_0+25c_1k^2)$	0	$10\sqrt{\frac{2}{3}}c_1k^2$	$-\frac{10c_1k^2}{\sqrt{3}}$	$-\frac{25ic_1k^3}{2\sqrt{2}}$	0	0
$\Gamma^{\#2}_{0^+}{}^{\dagger}$	0	0	$\frac{a_0}{2}$	$-\frac{a_0}{2\sqrt{2}}$	0	0	0
$\Gamma^{\#3}_{0^+}{}^{\dagger}$	$10\sqrt{\frac{2}{3}}c_1k^2$	$\frac{a_0}{2}$	$\frac{23c_1k^2}{3}$	$-\frac{3a_0+46c_1k^2}{6\sqrt{2}}$	$-\frac{10ic_1k^3}{\sqrt{3}}$	0	0
$\Gamma^{\#4}_{0^+}{}^{\dagger}$	$-\frac{10c_1k^2}{\sqrt{3}}$	$-\frac{a_0}{2\sqrt{2}}$	$-\frac{3a_0+46c_1k^2}{6\sqrt{2}}$	$\frac{1}{6}(3a_0+23c_1k^2)$	$5i\sqrt{\frac{2}{3}}c_1k^3$	0	0
$h^{\#1}_{0^+}{}^{\dagger}$	$\frac{25ic_1k^3}{2\sqrt{2}}$	0	$\frac{10ic_1k^3}{\sqrt{3}}$	$-5i\sqrt{\frac{2}{3}}c_1k^3$	$\frac{1}{4}k^2(a_0+25c_1k^2)$	0	0
$h^{\#2}_{0^+}{}^{\dagger}$	0	0	0	0	0	0	0
$\Gamma^{\#1}_{0^-}{}^{\dagger}$	0	0	0	0	0	0	$\frac{1}{2}(-a_0+c_1k^2)$

	$\Delta^{\#1}_{0^+}$	$\Delta^{\#2}_{0^+}$	$\Delta^{\#3}_{0^+}$	$\Delta^{\#4}_{0^+}$	$\mathcal{T}^{\#1}_{0^+}$	$\mathcal{T}^{\#2}_{0^+}$	$\Delta^{\#1}_{0^-}$
$\Delta^{\#1}_{0^+}{}^{\dagger}$	$-\frac{2(a_0+25c_1k^2)}{a_0^2}$	$\frac{10\sqrt{6}c_1k^2}{a_0^2}$	$-\frac{10\sqrt{\frac{2}{3}}c_1k^2}{a_0^2}$	$-\frac{20c_1k^2}{\sqrt{3}a_0^2}$	$-\frac{50i\sqrt{2}c_1k}{a_0^2}$	0	0
$\Delta^{\#2}_{0^+}{}^{\dagger}$	$\frac{10\sqrt{6}c_1k^2}{a_0^2}$	$-\frac{3(a_0+23c_1k^2)}{4a_0^2}$	$\frac{5a_0+23c_1k^2}{4a_0^2}$	$-\frac{a_0-23c_1k^2}{2\sqrt{2}a_0^2}$	$\frac{20i\sqrt{3}c_1k}{a_0^2}$	0	0
$\Delta^{\#3}_{0^+}{}^{\dagger}$	$-\frac{10\sqrt{\frac{2}{3}}c_1k^2}{a_0^2}$	$\frac{5a_0+23c_1k^2}{4a_0^2}$	$-\frac{9a_0+23c_1k^2}{12a_0^2}$	$-\frac{3a_0+23c_1k^2}{6\sqrt{2}a_0^2}$	$-\frac{20ic_1k}{\sqrt{3}a_0^2}$	0	0
$\Delta^{\#4}_{0^+}{}^{\dagger}$	$-\frac{20c_1k^2}{\sqrt{3}a_0^2}$	$-\frac{a_0-23c_1k^2}{2\sqrt{2}a_0^2}$	$-\frac{3a_0+23c_1k^2}{6\sqrt{2}a_0^2}$	$\frac{3a_0-23c_1k^2}{6a_0^2}$	$-\frac{20i\sqrt{\frac{2}{3}}c_1k}{a_0^2}$	0	0
$\mathcal{T}^{\#1}_{0^+}{}^{\dagger}$	$\frac{50i\sqrt{2}c_1k}{a_0^2}$	$-\frac{20i\sqrt{3}c_1k}{a_0^2}$	$\frac{20ic_1k}{\sqrt{3}a_0^2}$	$\frac{20i\sqrt{\frac{2}{3}}c_1k}{a_0^2}$	$\frac{4(a_0-25c_1k^2)}{a_0^2k^2}$	0	0
$\mathcal{T}^{\#2}_{0^+}{}^{\dagger}$	0	0	0	0	0	0	0
$\Delta^{\#1}_{0^-}{}^{\dagger}$	0	0	0	0	0	0	$-\frac{2}{a_0-c_1k^2}$

	$\Delta^{\#1}_{2^+\alpha\beta}$	$\Delta^{\#2}_{2^+\alpha\beta}$	$\Delta^{\#3}_{2^+\alpha\beta}$	$\mathcal{T}^{\#1}_{2^+\alpha\beta}$	$\Delta^{\#1}_{2^-\alpha\beta\chi}$	$\Delta^{\#2}_{2^-\alpha\beta\chi}$
$\Delta^{\#1}_{2^+}{}^{\dagger\alpha\beta}$	$\frac{4(a_0-11c_1k^2)}{a_0^2}$	$-\frac{40\sqrt{\frac{2}{3}}c_1k^2}{a_0^2}$	$-\frac{80c_1k^2}{\sqrt{3}a_0^2}$	$-\frac{44i\sqrt{2}c_1k}{a_0^2}$	0	0
$\Delta^{\#2}_{2^+}{}^{\dagger\alpha\beta}$	$-\frac{40\sqrt{\frac{2}{3}}c_1k^2}{a_0^2}$	$-\frac{2(3a_0+c_1k^2)}{3a_0^2}$	$-\frac{2\sqrt{2}c_1k^2}{3a_0^2}$	$-\frac{80ic_1k}{\sqrt{3}a_0^2}$	0	0
$\Delta^{\#3}_{2^+}{}^{\dagger\alpha\beta}$	$-\frac{80c_1k^2}{\sqrt{3}a_0^2}$	$-\frac{2\sqrt{2}c_1k^2}{3a_0^2}$	$\frac{4(3a_0-c_1k^2)}{3a_0^2}$	$-\frac{80i\sqrt{\frac{2}{3}}c_1k}{a_0^2}$	0	0
$\mathcal{T}^{\#1}_{2^+}{}^{\dagger\alpha\beta}$	$\frac{44i\sqrt{2}c_1k}{a_0^2}$	$\frac{80ic_1k}{\sqrt{3}a_0^2}$	$\frac{80i\sqrt{\frac{2}{3}}c_1k}{a_0^2}$	$-\frac{8(a_0+11c_1k^2)}{a_0^2k^2}$	0	0
$\Delta^{\#1}_{2^-}{}^{\dagger\alpha\beta\chi}$	0	0	0	0	$\frac{4}{a_0-c_1k^2}$	0
$\Delta^{\#2}_{2^-}{}^{\dagger\alpha\beta\chi}$	0	0	0	0	0	$\frac{4}{a_0-5c_1k^2}$

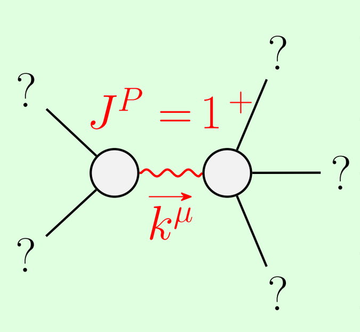
	$\Gamma^{\#1}_{2^+\alpha\beta}$	$\Gamma^{\#2}_{2^+\alpha\beta}$	$\Gamma^{\#3}_{2^+\alpha\beta}$	$h^{\#1}_{2^+\alpha\beta}$	$\Gamma^{\#1}_{2^-\alpha\beta\chi}$	$\Gamma^{\#2}_{2^-\alpha\beta\chi}$
$\Gamma^{\#1}_{2^+}{}^{\dagger\alpha\beta}$	$\frac{1}{4}(a_0+11c_1k^2)$	$-5\sqrt{\frac{2}{3}}c_1k^2$	$\frac{5c_1k^2}{\sqrt{3}}$	$-\frac{11ic_1k^3}{4\sqrt{2}}$	0	0
$\Gamma^{\#2}_{2^+}{}^{\dagger\alpha\beta}$	$-5\sqrt{\frac{2}{3}}c_1k^2$	$\frac{1}{6}(-3a_0+c_1k^2)$	$-\frac{c_1k^2}{6\sqrt{2}}$	$\frac{5ic_1k^3}{\sqrt{3}}$	0	0
$\Gamma^{\#3}_{2^+}{}^{\dagger\alpha\beta}$	$\frac{5c_1k^2}{\sqrt{3}}$	$-\frac{c_1k^2}{6\sqrt{2}}$	$\frac{1}{12}(3a_0+c_1k^2)$	$-\frac{5ic_1k^3}{\sqrt{6}}$	0	0
$h^{\#1}_{2^+}{}^{\dagger\alpha\beta}$	$\frac{11ic_1k^3}{4\sqrt{2}}$	$-\frac{5ic_1k^3}{\sqrt{3}}$	$\frac{5ic_1k^3}{\sqrt{6}}$	$-\frac{1}{8}k^2(a_0-11c_1k^2)$	0	0
$\Gamma^{\#1}_{2^-}{}^{\dagger\alpha\beta\chi}$	0	0	0	0	$\frac{1}{4}(a_0-c_1k^2)$	0
$\Gamma^{\#2}_{2^-}{}^{\dagger\alpha\beta\chi}$	0	0	0	0	0	$\frac{1}{4}(a_0-5c_1k^2)$

	$\Gamma^{\#1}_{3^-\alpha\beta\chi}$
$\Gamma^{\#1}_{3^-}{}^{\dagger\alpha\beta\chi}$	$\frac{1}{2}(-a_0-7c_1k^2)$

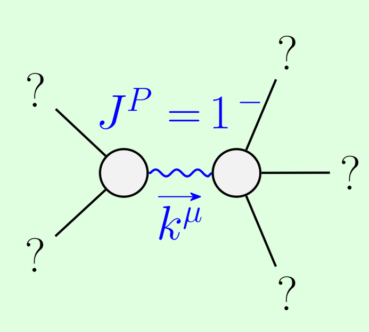
	$\Delta^{\#1}_{3^-\alpha\beta\chi}$
$\Delta^{\#1}_{3^-}{}^{\dagger\alpha\beta\chi}$	$-\frac{2}{a_0+7c_1k^2}$

Source constraints

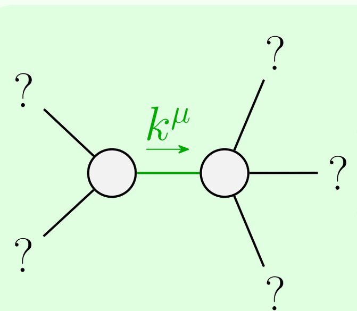
SO(3) irreps	#
$\mathcal{T}^{\#2}_{0^+}==0$	1
$\Delta^{\#3}_{0^+}+2\,\Delta^{\#4}_{0^+}+3\,\Delta^{\#2}_{0^+}==0$	1
$\mathcal{T}^{\#1\alpha}_{1^-}==0$	3
$2\,\Delta^{\#6\alpha}_{1^-}+\Delta^{\#4\alpha}_{1^-}+2\,\Delta^{\#5\alpha}_{1^-}+\Delta^{\#3\alpha}_{1^-}==0$	3
Total #:	8



Massive particle	
Pole residue:	$-\frac{4164}{24389c_1}>0$
Polarisations:	3
Square mass:	$\frac{a_0}{29c_1}>0$
Spin:	1
Parity:	Even

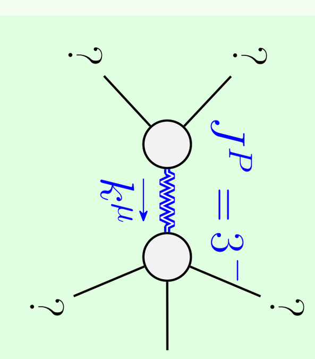


Massive particle	
Pole residue:	$\frac{4907}{35937c_1}>0$
Polarisations:	3
Square mass:	$\frac{a_0}{33c_1}>0$
Spin:	1
Parity:	Odd

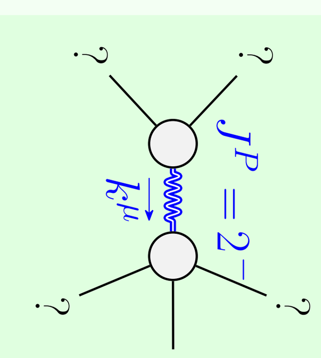


Quadratic pole	
Pole residue:	$-\frac{1}{a_0}>0$
Polarisations:	2

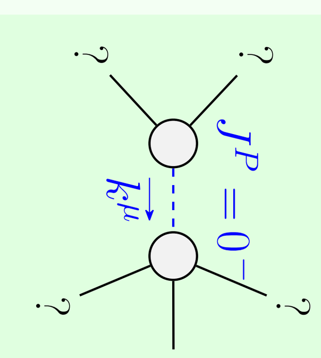
Unitarity conditions
(Unitarity is demonstrably impossible)



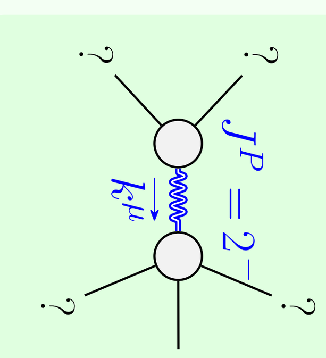
Massive particle	
Pole residue:	$\frac{2}{7c_1}>0$
Polarisations:	7
Square mass:	$-\frac{a_0}{7c_1}>0$
Spin:	3
Parity:	Odd



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



Massive particle	
Pole residue:	$-\frac{2}{c_1}>0$
Polarisations:	1
Square mass:	$\frac{a_0}{c_1}>0$
Spin:	0
Parity:	Odd



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