Lagrangian density

$-\frac{1}{2} a_0 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\chi\alpha} + \frac{1}{2} a_0 \Gamma^{\alpha}{}_{\alpha}{}^{\beta} \Gamma^{\chi}{}_{\beta\chi} + h^{\alpha\beta} \mathcal{T}_{\alpha\beta} + \Gamma^{\alpha\beta\chi} \Delta_{\alpha\beta\chi} - \frac{1}{2} a_0 \Gamma^{\alpha\beta\chi} \partial_\beta h_{\alpha\chi} -$
$\frac{1}{4} a_0 \Gamma^{\alpha}{}_{\alpha}{}^{\beta} \partial_\beta h^{\chi}{}_{\chi} + \frac{1}{4} a_0 \Gamma^{\alpha\beta}{}_{\alpha} \partial_\beta h^{\chi}{}_{\chi} - \frac{1}{4} a_0 h^{\chi}{}_{\chi} \partial_\beta \Gamma^{\alpha}{}_{\alpha}{}^{\beta} + \frac{1}{4} a_0 h^{\chi}{}_{\chi} \partial_\beta \Gamma^{\alpha\beta}{}_{\alpha} -$
$\frac{1}{2} a_0 h_{\alpha\chi} \partial_\beta \Gamma^{\alpha\beta\chi} + \frac{11}{2} a_1 \partial^\alpha \Gamma^{\chi\delta}{}_{\delta} \partial_\beta \Gamma_{\chi\alpha}{}^{\beta} + \frac{1}{2} a_1 \partial^\alpha \Gamma_{\chi\alpha}{}^{\beta} \partial_\beta \Gamma^{\chi\delta}{}_{\delta} -$
$19 a_1 \partial^\alpha \Gamma^{\chi\delta}{}_{\chi} \partial_\beta \Gamma_{\delta\alpha}{}^{\beta} + \frac{1}{4} a_0 h^{\alpha\beta} \partial_\beta \partial_\alpha h^{\chi}{}_{\chi} - \frac{1}{8} a_0 \partial_\beta h^{\chi}{}_{\chi} \partial^\beta h^{\alpha}{}_{\alpha} +$
$\frac{1}{2} a_0 \Gamma^{\alpha}{}_{\alpha}{}^{\beta} \partial_\chi h_\beta{}^\chi + \frac{1}{4} a_0 \partial^\beta h^{\alpha}{}_{\alpha} \partial_\chi h_\beta{}^\chi + \frac{37}{4} a_1 \partial_\beta \partial_\alpha h^{\delta}{}_{\delta} \partial_\chi \Gamma^{\alpha\beta\chi} +$
$\frac{3}{4} a_1 \partial_\beta \Gamma^{\alpha\beta\chi} \partial_\chi \partial_\alpha h^{\delta}{}_{\delta} - \frac{1}{2} a_0 h^{\alpha\beta} \partial_\chi \partial_\beta h_\alpha{}^\chi + \frac{1}{4} a_0 h^{\alpha}{}_{\alpha} \partial_\chi \partial_\beta h^{\beta\chi} +$
$\frac{1}{4} a_0 h^{\alpha\beta} \partial_\chi \partial^\chi h_{\alpha\beta} - \frac{1}{4} a_0 h^{\alpha}{}_{\alpha} \partial_\chi \partial^\chi h^{\beta}{}_{\beta} - \frac{1}{4} a_0 \partial_\beta h_{\alpha\chi} \partial^\chi h^{\alpha\beta} + \frac{1}{8} a_0 \partial_\chi h_{\alpha\beta} \partial^\chi h^{\alpha\beta} +$
$\frac{1}{2} a_0 h_{\beta\chi} \partial^\chi \Gamma^{\alpha}{}_{\alpha}{}^{\beta} - \frac{1}{2} a_1 \partial_\beta \Gamma_\chi{}^\delta{}_\delta \partial^\chi \Gamma^{\alpha}{}_{\alpha}{}^{\beta} - \frac{1}{2} a_1 \partial_\beta \Gamma^{\delta}{}_{\delta\chi} \partial^\chi \Gamma^{\alpha}{}_{\alpha}{}^{\beta} +$
$\frac{1}{2} a_1 \partial_\chi \Gamma_\beta{}^\delta{}_\delta \partial^\chi \Gamma^{\alpha}{}_{\alpha}{}^{\beta} - \frac{1}{2} a_1 \partial_\chi \Gamma^{\delta}{}_{\beta\delta} \partial^\chi \Gamma^{\alpha}{}_{\alpha}{}^{\beta} - \frac{1}{2} a_1 \partial_\chi \Gamma^{\delta}{}_{\delta\beta} \partial^\chi \Gamma^{\alpha}{}_{\alpha}{}^{\beta} -$
$\frac{3}{4} a_1 \partial_\chi \partial_\beta h^{\delta}{}_{\delta} \partial^\chi \Gamma^{\alpha}{}_{\alpha}{}^{\beta} - \frac{11}{2} a_1 \partial_\beta \Gamma_\chi{}^\delta{}_\delta \partial^\chi \Gamma^{\alpha\beta}{}_{\alpha} + \frac{19}{2} a_1 \partial_\beta \Gamma^{\delta}{}_{\chi\delta} \partial^\chi \Gamma^{\alpha\beta}{}_{\alpha} +$
$\frac{11}{2} a_1 \partial_\chi \Gamma_\beta{}^\delta{}_\delta \partial^\chi \Gamma^{\alpha\beta}{}_{\alpha} - \frac{1}{2} a_1 \partial_\chi \Gamma^{\delta}{}_{\beta\delta} \partial^\chi \Gamma^{\alpha\beta}{}_{\alpha} - \frac{37}{4} a_1 \partial_\chi \partial_\beta h^{\delta}{}_{\delta} \partial^\chi \Gamma^{\alpha\beta}{}_{\alpha} +$
$a_1 \partial_\alpha \Gamma_\chi{}^\delta{}_\delta \partial^\chi \Gamma^{\alpha\beta}{}_{\beta} - a_1 \partial_\chi \Gamma_\alpha{}^\delta{}_\delta \partial^\chi \Gamma^{\alpha\beta}{}_{\beta} - \frac{9}{2} a_1 \partial_\chi \partial_\beta h^{\delta}{}_{\delta} \partial^\chi \partial_\alpha h^{\alpha\beta} +$
$\frac{17}{8} a_1 \partial_\chi \partial_\beta h^{\delta}{}_{\delta} \partial^\chi \partial^\beta h^{\alpha}{}_{\alpha} - \frac{1}{2} a_1 \partial_\chi \Gamma^{\alpha\beta\chi} \partial_\delta \Gamma_{\alpha\beta}{}^{\delta} - \frac{1}{2} a_1 \partial_\beta \Gamma^{\alpha\beta\chi} \partial_\delta \Gamma_{\alpha\chi}{}^{\delta} -$
$\frac{1}{2} a_1 \partial_\beta \Gamma^{\alpha\beta\chi} \partial_\delta \Gamma_\alpha{}^\delta{}_\chi + \frac{19}{2} a_1 \partial_\chi \Gamma^{\alpha\beta\chi} \partial_\delta \Gamma_{\beta\alpha}{}^{\delta} + a_1 \partial^\chi \Gamma^{\alpha}{}_{\alpha}{}^{\beta} \partial_\delta \Gamma_\beta{}^\delta{}_\chi +$
$\frac{1}{2} a_1 \partial^\chi \Gamma^{\alpha}{}_{\alpha}{}^{\beta} \partial_\delta \Gamma_{\chi\beta}{}^{\delta} + \frac{1}{2} a_1 \partial^\chi \Gamma^{\alpha\beta}{}_{\alpha} \partial_\delta \Gamma_{\chi\beta}{}^{\delta} - \frac{1}{2} a_1 \partial_\beta \Gamma^{\alpha\beta\chi} \partial_\delta \Gamma_\chi{}^\delta{}_\alpha +$
$\frac{1}{2} a_1 \partial^\chi \Gamma_{\beta\alpha}{}^{\beta} \partial_\delta \Gamma_\chi{}^{\delta\alpha} + a_1 \partial^\chi \Gamma^{\alpha}{}_{\alpha}{}^{\beta} \partial_\delta \Gamma_\chi{}^\delta{}_\beta - \frac{1}{2} a_1 \partial_\beta \Gamma^{\alpha}{}_{\alpha}{}^{\beta} \partial_\delta \Gamma^{\chi}{}_{\chi}{}^{\delta} +$
$a_1 \partial_\beta \Gamma^{\alpha}{}_{\alpha}{}^{\beta} \partial_\delta \Gamma^{\chi\delta}{}_{\chi} - \frac{1}{2} a_1 \partial_\beta \Gamma^{\alpha\beta}{}_{\alpha} \partial_\delta \Gamma^{\chi\delta}{}_{\chi} - \frac{37}{4} a_1 \partial_\chi \Gamma^{\alpha\beta\chi} \partial_\delta \partial_\alpha h_\beta{}^\delta -$
$\frac{3}{4} a_1 \partial_\beta \Gamma^{\alpha\beta\chi} \partial_\delta \partial_\alpha h_\chi{}^\delta - \frac{37}{4} a_1 \partial_\chi \Gamma^{\alpha\beta\chi} \partial_\delta \partial_\beta h_\alpha{}^\delta + \frac{3}{8} a_1 \partial_\chi \partial^\chi h^{\alpha\beta} \partial_\delta \partial_\beta h_\alpha{}^\delta +$
$\frac{37}{8} a_1 \partial_\alpha \partial^\chi h^{\alpha\beta} \partial_\delta \partial_\beta h_\chi{}^\delta + \frac{3}{4} a_1 \partial^\chi \Gamma^{\alpha}{}_{\alpha}{}^{\beta} \partial_\delta \partial_\beta h_\chi{}^\delta + \frac{37}{4} a_1 \partial^\chi \Gamma^{\alpha\beta}{}_{\alpha} \partial_\delta \partial_\beta h_\chi{}^\delta -$
$\frac{3}{8} a_1 \partial^\chi \partial_\alpha h^{\alpha\beta} \partial_\delta \partial_\beta h_\chi{}^\delta + \frac{13}{4} a_1 \partial^\chi \partial^\beta h^{\alpha}{}_{\alpha} \partial_\delta \partial_\beta h_\chi{}^\delta - \frac{3}{4} a_1 \partial_\beta \Gamma^{\alpha\beta\chi} \partial_\delta \partial_\chi h_\alpha{}^\delta -$
$\frac{43}{8} a_1 \partial_\alpha \partial^\chi h^{\alpha\beta} \partial_\delta \partial_\chi h_\beta{}^\delta + \frac{3}{4} a_1 \partial^\chi \Gamma^{\alpha}{}_{\alpha}{}^{\beta} \partial_\delta \partial_\chi h_\beta{}^\delta + \frac{37}{4} a_1 \partial^\chi \Gamma^{\alpha\beta}{}_{\alpha} \partial_\delta \partial_\chi h_\beta{}^\delta +$
$\frac{77}{8} a_1 \partial^\chi \partial_\alpha h^{\alpha\beta} \partial_\delta \partial_\chi h_\beta{}^\delta - \frac{29}{4} a_1 \partial^\chi \partial^\beta h^{\alpha}{}_{\alpha} \partial_\delta \partial_\chi h_\beta{}^\delta + a_1 \partial_\beta \Gamma^{\alpha}{}_{\alpha}{}^{\beta} \partial_\delta \partial_\chi h^{\chi\delta} -$
$a_1 \partial_\beta \Gamma^{\alpha\beta}{}_{\alpha} \partial_\delta \partial_\chi h^{\chi\delta} - \frac{1}{2} a_1 \partial_\beta \partial_\alpha h^{\alpha\beta} \partial_\delta \partial_\chi h^{\chi\delta} + a_1 \partial_\beta \partial^\beta h^{\alpha}{}_{\alpha} \partial_\delta \partial_\chi h^{\chi\delta} +$
$\frac{37}{4} a_1 \partial_\chi \Gamma^{\alpha\beta\chi} \partial_\delta \partial^\delta h_{\alpha\beta} + \frac{17}{8} a_1 \partial_\chi \partial^\chi h^{\alpha\beta} \partial_\delta \partial^\delta h_{\alpha\beta} + \frac{3}{4} a_1 \partial_\beta \Gamma^{\alpha\beta\chi} \partial_\delta \partial^\delta h_{\alpha\chi} +$
$\frac{1}{4} a_1 \partial_\alpha \partial^\chi h^{\alpha\beta} \partial_\delta \partial^\delta h_{\beta\chi} - \frac{3}{4} a_1 \partial^\chi \Gamma^{\alpha}{}_{\alpha}{}^{\beta} \partial_\delta \partial^\delta h_{\beta\chi} - \frac{37}{4} a_1 \partial^\chi \Gamma^{\alpha\beta}{}_{\alpha} \partial_\delta \partial^\delta h_{\beta\chi} -$
$\frac{73}{8} a_1 \partial^\chi \partial_\alpha h^{\alpha\beta} \partial_\delta \partial^\delta h_{\beta\chi} + \frac{17}{4} a_1 \partial^\chi \partial^\beta h^{\alpha}{}_{\alpha} \partial_\delta \partial^\delta h_{\beta\chi} - a_1 \partial_\beta \Gamma^{\alpha}{}_{\alpha}{}^{\beta} \partial_\delta \partial^\delta h^{\chi}{}_{\chi} +$
$a_1 \partial_\beta \Gamma^{\alpha\beta}{}_{\alpha} \partial_\delta \partial^\delta h^{\chi}{}_{\chi} - \frac{1}{2} a_1 \partial_\beta \partial^\beta h^{\alpha}{}_{\alpha} \partial_\delta \partial^\delta h^{\chi}{}_{\chi} + \frac{1}{2} a_1 \partial_\alpha \Gamma_{\beta\chi\delta} \partial^\delta \Gamma^{\alpha\beta\chi} +$
$a_1 \partial_\alpha \Gamma_{\beta\delta\chi} \partial^\delta \Gamma^{\alpha\beta\chi} + a_1 \partial_\alpha \Gamma_{\chi\beta\delta} \partial^\delta \Gamma^{\alpha\beta\chi} + \frac{1}{2} a_1 \partial_\alpha \Gamma_{\chi\delta\beta} \partial^\delta \Gamma^{\alpha\beta\chi} +$
$a_1 \partial_\alpha \Gamma_{\delta\beta\chi} \partial^\delta \Gamma^{\alpha\beta\chi} + a_1 \partial_\alpha \Gamma_{\delta\chi\beta} \partial^\delta \Gamma^{\alpha\beta\chi} - \frac{1}{2} a_1 \partial_\beta \Gamma_{\alpha\chi\delta} \partial^\delta \Gamma^{\alpha\beta\chi} - \frac{1}{2} a_1 \partial_\beta \Gamma_{\alpha\delta\chi} \partial^\delta \Gamma^{\alpha\beta\chi} -$
$\frac{1}{2} a_1 \partial_\beta \Gamma_{\chi\delta\alpha} \partial^\delta \Gamma^{\alpha\beta\chi} - \frac{3}{2} a_1 \partial_\beta \partial_\alpha h_{\chi\delta} \partial^\delta \Gamma^{\alpha\beta\chi} - \frac{1}{2} a_1 \partial_\chi \Gamma_{\alpha\beta\delta} \partial^\delta \Gamma^{\alpha\beta\chi} -$
$\frac{1}{2} a_1 \partial_\chi \Gamma_{\beta\alpha\delta} \partial^\delta \Gamma^{\alpha\beta\chi} + a_1 \partial_\chi \Gamma_{\beta\delta\alpha} \partial^\delta \Gamma^{\alpha\beta\chi} + \frac{3}{2} a_1 \partial_\chi \partial_\alpha h_{\beta\delta} \partial^\delta \Gamma^{\alpha\beta\chi} -$
$a_1 \partial_\delta \Gamma_{\alpha\beta\chi} \partial^\delta \Gamma^{\alpha\beta\chi} - a_1 \partial_\delta \Gamma_{\alpha\chi\beta} \partial^\delta \Gamma^{\alpha\beta\chi} - \frac{1}{2} a_1 \partial_\delta \Gamma_{\beta\alpha\chi} \partial^\delta \Gamma^{\alpha\beta\chi} - \frac{1}{2} a_1 \partial_\delta \Gamma_{\beta\chi\alpha} \partial^\delta \Gamma^{\alpha\beta\chi} -$
$\frac{1}{2} a_1 \partial_\delta \Gamma_{\chi\beta\alpha} \partial^\delta \Gamma^{\alpha\beta\chi} + \frac{3}{2} a_1 \partial_\delta \partial_\beta h_{\alpha\chi} \partial^\delta \Gamma^{\alpha\beta\chi} - \frac{3}{2} a_1 \partial_\delta \partial_\chi h_{\alpha\beta} \partial^\delta \Gamma^{\alpha\beta\chi} -$
$\frac{11}{2} a_1 \partial_\beta \Gamma_{\delta\alpha}{}^{\beta} \partial^\delta \Gamma^{\alpha\chi}{}_{\chi} - \frac{1}{2} a_1 \partial^\alpha \Gamma_{\delta\alpha}{}^{\beta} \partial^\delta \Gamma_\beta{}^\chi{}_\chi + \frac{1}{2} a_1 \partial_\beta \Gamma_{\delta\alpha}{}^{\beta} \partial^\delta \Gamma^{\chi\alpha}{}_{\chi} -$
$\frac{3}{4} a_1 \partial_\beta \partial_\alpha h_{\chi\delta} \partial^\delta \partial^\chi h^{\alpha\beta} + \frac{3}{2} a_1 \partial_\chi \partial_\beta h_{\alpha\delta} \partial^\delta \partial^\chi h^{\alpha\beta} - \frac{3}{4} a_1 \partial_\delta \partial_\chi h_{\alpha\beta} \partial^\delta \partial^\chi h^{\alpha\beta}$

	$\Delta_{1^+}^{\#1}{}_{\alpha\beta}$	$\Delta_{1^+}^{\#2}{}_{\alpha\beta}$	$\Delta_{1^+}^{\#3}{}_{\alpha\beta}$	$\Delta_{1^-}^{\#1}{}_{\alpha}$	$\Delta_{1^-}^{\#2}{}_{\alpha}$	$\Delta_{1^-}^{\#3}{}_{\alpha}$	$\Delta_{1^-}^{\#4}{}_{\alpha}$	$\Delta_{1^-}^{\#5}{}_{\alpha}$	$\Delta_{1^-}^{\#6}{}_{\alpha}$	$\mathcal{T}_{1^-}^{\#1}{}_{\alpha}$
$\Delta_{1^+}^{\#1}\dagger^{\alpha\beta}$	0	$-\frac{2\sqrt{2}}{a_0}$	0	0	0	0	0	0	0	0
$\Delta_{1^+}^{\#2}\dagger^{\alpha\beta}$	$-\frac{2\sqrt{2}}{a_0}$	$\frac{2(a_0^2-14a_0a_1k^2-35a_1^2k^4)}{a_0^2(a_0-29a_1k^2)}$	$\frac{40\sqrt{2}a_1k^2}{a_0^2-29a_0a_1k^2}$	0	0	0	0	0	0	0
$\Delta_{1^+}^{\#3}\dagger^{\alpha\beta}$	0	$\frac{40\sqrt{2}a_1k^2}{a_0^2-29a_0a_1k^2}$	$\frac{4}{a_0-29a_1k^2}$	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
$\Delta_{1^-}^{\#2}\dagger^{\alpha}$	0	0	0	$\frac{2\sqrt{2}}{a_0}$	$\frac{2(a_0^2-30a_0a_1k^2+401a_1^2k^4)}{a_0^2(a_0-33a_1k^2)}$	$\frac{5\sqrt{\frac{2}{3}}a_1k^2(7a_0-236a_1k^2)}{a_0^2(a_0-33a_1k^2)}$	$-\frac{5\sqrt{\frac{10}{3}}a_1k^2}{a_0^2-33a_0a_1k^2}$	$\frac{10a_1k^2(-11a_0+118a_1k^2)}{\sqrt{3}a_0^2(a_0-33a_1k^2)}$	$\frac{50\sqrt{\frac{2}{3}}a_1k^2}{a_0^2-33a_0a_1k^2}$	0
$\Delta_{1^-}^{\#3}\dagger^{\alpha}$	0	0	0	0	$\frac{5\sqrt{\frac{2}{3}}a_1k^2(7a_0-236a_1k^2)}{a_0^2(a_0-33a_1k^2)}$	$\frac{-19a_0^2+472a_0a_1k^2+5120a_1^2k^4}{12a_0^2(a_0-33a_1k^2)}$	$\frac{\sqrt{5}(5a_0-164a_1k^2)}{12a_0(a_0-33a_1k^2)}$	$-\frac{a_0^2-118a_0a_1k^2+2560a_1^2k^4}{6\sqrt{2}a_0^2(a_0-33a_1k^2)}$	$-\frac{a_0-28a_1k^2}{6a_0^2-198a_0a_1k^2}$	0
$\Delta_{1^-}^{\#4}\dagger^{\alpha}$	0	0	0	0	$-\frac{5\sqrt{\frac{10}{3}}a_1k^2}{a_0^2-33a_0a_1k^2}$	$\frac{\sqrt{5}(5a_0-164a_1k^2)}{12a_0(a_0-33a_1k^2)}$	$\frac{1}{12a_0-396a_1k^2}$	$-\frac{\sqrt{\frac{5}{2}}(a_0-82a_1k^2)}{6a_0(a_0-33a_1k^2)}$	$-\frac{\sqrt{5}}{6(a_0-33a_1k^2)}$	0
$\Delta_{1^-}^{\#5}\dagger^{\alpha}$	0	0	0	0	$\frac{10a_1k^2(-11a_0+118a_1k^2)}{\sqrt{3}a_0^2(a_0-33a_1k^2)}$	$-\frac{a_0^2-118a_0a_1k^2+2560a_1^2k^4}{6\sqrt{2}a_0^2(a_0-33a_1k^2)}$	$-\frac{\sqrt{\frac{5}{2}}(a_0-82a_1k^2)}{6a_0(a_0-33a_1k^2)}$	$\frac{17a_0^2-236a_0a_1k^2+1280a_1^2k^4}{6a_0^2(a_0-33a_1k^2)}$	$-\frac{7(a_0+2a_1k^2)}{3\sqrt{2}a_0(a_0-33a_1k^2)}$	0
$\Delta_{1^-}^{\#6}\dagger^{\alpha}$	0	0	0	0	$\frac{50\sqrt{\frac{2}{3}}a_1k^2}{a_0^2-33a_0a_1k^2}$	$-\frac{a_0-28a_1k^2}{6a_0^2-198a_0a_1k^2}$	$-\frac{\sqrt{5}}{6(a_0-33a_1k^2)}$	$-\frac{7(a_0+2a_1k^2)}{3\sqrt{2}a_0(a_0-33a_1k^2)}$	$\frac{5}{3(a_0-33a_1k^2)}$	0
$\mathcal{T}_{1^-}^{\#1}\dagger^{\alpha}$	0	0	0	0	0	0	0	0	0	0

	$\Gamma_{3^-}^{\#1}{}_{\alpha\beta\chi}$
$\Gamma_{3^-}^{\#1}\dagger^{\alpha\beta\chi}$	$\frac{1}{2}(-a_0-7a_1k^2)$

	$\Delta_{3^-}^{\#1}{}_{\alpha\beta\chi}$
$\Delta_{3^-}^{\#1}\dagger^{\alpha\beta\chi}$	$-\frac{2}{a_0+7a_1k^2}$

	$\Gamma_{1^+}^{\#1}{}_{\alpha\beta}$	$\Gamma_{1^+}^{\#2}{}_{\alpha\beta}$	$\Gamma_{1^+}^{\#3}{}_{\alpha\beta}$	$\Gamma_{1^-}^{\#1}{}_{\alpha}$	$\Gamma_{1^-}^{\#2}{}_{\alpha}$	$\Gamma_{1^-}^{\#3}{}_{\alpha}$	$\Gamma_{1^-}^{\#4}{}_{\alpha}$	$\Gamma_{1^-}^{\#5}{}_{\alpha}$	$\Gamma_{1^-}^{\#6}{}_{\alpha}$	$h_{1^-}^{\#1}{}_{\alpha}$
$\Gamma_{1^+}^{\#1}\dagger^{\alpha\beta}$	$\frac{1}{4}(-a_0-15a_1k^2)$	$-\frac{a_0}{2\sqrt{2}}$	$5a_1k^2$	0	0	0	0	0	0	0
$\Gamma_{1^+}^{\#2}\dagger^{\alpha\beta}$	$-\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	0	0	0	0
$\Gamma_{1^+}^{\#3}\dagger^{\alpha\beta}$	$5a_1k^2$	0	$\frac{1}{4}(a_0-29a_1k^2)$	0	0	0	0	0	0	0
$\Gamma_{1^-}^{\#1}\dagger^{\alpha}$	0	0	0	$\frac{1}{4}(-a_0-3a_1k^2)$	$\frac{a_0}{2\sqrt{2}}$	$\frac{5}{2}\sqrt{3}a_1k^2$	$-\frac{5}{2}\sqrt{\frac{5}{3}}a_1k^2$	$5\sqrt{\frac{3}{2}}a_1k^2$	$-\frac{5a_1k^2}{\sqrt{3}}$	0
$\Gamma_{1^-}^{\#2}\dagger^{\alpha}$	0	0	0	$\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	0
$\Gamma_{1^-}^{\#3}\dagger^{\alpha}$	0	0	0	$\frac{5}{2}\sqrt{3}a_1k^2$	0	$-\frac{a_0}{3}$	$\frac{1}{6}\sqrt{5}(a_0-8a_1k^2)$	$-\frac{a_0}{6\sqrt{2}}$	$\frac{1}{6}(-a_0+20a_1k^2)$	0
$\Gamma_{1^-}^{\#4}\dagger^{\alpha}$	0	0	0	$-\frac{5}{2}\sqrt{\frac{5}{3}}a_1k^2$	0	$\frac{1}{6}\sqrt{5}(a_0-8a_1k^2)$	$\frac{1}{3}(a_0+7a_1k^2)$	$-\frac{1}{6}\sqrt{\frac{5}{2}}(a_0+16a_1k^2)$	$-\frac{1}{6}\sqrt{5}(a_0-5a_1k^2)$	0
$\Gamma_{1^-}^{\#5}\dagger^{\alpha}$	0	0	0	$5\sqrt{\frac{3}{2}}a_1k^2$	0	$-\frac{a_0}{6\sqrt{2}}$	$-\frac{1}{6}\sqrt{\frac{5}{2}}(a_0+16a_1k^2)$	$\frac{a_0}{3}$	$\frac{a_0+40a_1k^2}{6\sqrt{2}}$	0
$\Gamma_{1^-}^{\#6}\dagger^{\alpha}$	0	0	0	$-\frac{5a_1k^2}{\sqrt{3}}$	0	$\frac{1}{6}(-a_0+20a_1k^2)$	$-\frac{1}{6}\sqrt{5}(a_0-5a_1k^2)$	$\frac{a_0+40a_1k^2}{6\sqrt{2}}$	$\frac{5}{12}(a_0-17a_1k^2)$	0
$h_{1^-}^{\#1}\dagger^{\alpha}$	0	0	0	0	0	0	0	0	0	0

	$\Gamma_{2^+}^{\#1}{}_{\alpha\beta}$	$\Gamma_{2^+}^{\#2}{}_{\alpha\beta}$	$\Gamma_{2^+}^{\#3}{}_{\alpha\beta}$	$h_{2^+}^{\#1}{}_{\alpha\beta}$	$\Gamma_{2^-}^{\#1}{}_{\alpha\beta\chi}$	$\Gamma_{2^-}^{\#2}{}_{\alpha\beta\chi}$
$\Gamma_{2^+}^{\#1}\dagger^{\alpha\beta}$	$\frac{1}{4}(a_0+11a_1k^2)$	$-5\sqrt{\frac{2}{3}}a_1k^2$	$\frac{5a_1k^2}{\sqrt{3}}$	$-\frac{11ia_1k^3}{4\sqrt{2}}$	0	0
$\Gamma_{2^+}^{\#2}\dagger^{\alpha\beta}$	$-5\sqrt{\frac{2}{3}}a_1k^2$	$\frac{1}{6}(-3a_0+a_1k^2)$	$-\frac{a_1k^2}{6\sqrt{2}}$	$\frac{5ia_1k^3}{\sqrt{3}}$	0	0
$\Gamma_{2^+}^{\#3}\dagger^{\alpha\beta}$	$\frac{5a_1k^2}{\sqrt{3}}$	$-\frac{a_1k^2}{6\sqrt{2}}$	$\frac{1}{12}(3a_0+a_1k^2)$	$-\frac{5ia_1k^3}{\sqrt{6}}$	0	0
$h_{2^+}^{\#1}\dagger^{\alpha\beta}$	$\frac{11ia_1k^3}{4\sqrt{2}}$	$-\frac{5ia_1k^3}{\sqrt{3}}$	$\frac{5ia_1k^3}{\sqrt{6}}$	$-\frac{1}{8}k^2(a_0-11a_1k^2)$	0	0
$\Gamma_{2^-}^{\#1}\dagger^{\alpha\beta\chi}$	0	0	0	0	$\frac{1}{4}(a_0-a_1k^2)$	0
$\Gamma_{2^-}^{\#2}\dagger^{\alpha\beta\chi}$	0	0	0	0	0	$\frac{1}{4}(a_0-5a_1k^2)$

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

	$\Delta_{2^+}^{\#1}{}_{\alpha\beta}$	$\Delta_{2^+}^{\#2}{}_{\alpha\beta}$	$\Delta_{2^+}^{\#3}{}_{\alpha\beta}$	$\mathcal{T}_{2^+}^{\#1}{}_{\alpha\beta}$	$\Delta_{2^-}^{\#1}{}_{\alpha\beta\chi}$	$\Delta_{2^-}^{\#2}{}_{\alpha\beta\chi}$
$\Delta_{2^+}^{\#1}\dagger^{\alpha\beta}$	$\frac{4(a_0-11a_1k^2)}{a_0^2}$	$-\frac{40\sqrt{\frac{2}{3}}a_1k^2}{a_0^2}$	$-\frac{80a_1k^2}{\sqrt{3}a_0^2}$	$-\frac{44i\sqrt{2}a_1k}{a_0^2}$	0	0
$\Delta_{2^+}^{\#2}\dagger^{\alpha\beta}$	$-\frac{40\sqrt{\frac{2}{3}}a_1k^2}{a_0^2}$	$-\frac{2(3a_0+a_1k^2)}{3a_0^2}$	$-\frac{2\sqrt{2}a_1k^2}{3a_0^2}$	$-\frac{80ia_1k}{\sqrt{3}a_0^2}$	0	0
$\Delta_{2^+}^{\#3}\dagger^{\alpha\beta}$	$-\frac{80a_1k^2}{\sqrt{3}a_0^2}$	$-\frac{2\sqrt{2}a_1k^2}{3a_0^2}$	$\frac{4(3a_0-a_1k^2)}{3a_0^2}$	$-\frac{80i\sqrt{\frac{2}{3}}a_1k}{a_0^2}$	0	0
$\mathcal{T}_{2^+}^{\#1}\dagger^{\alpha\beta}$	$\frac{44i\sqrt{2}a_1k}{a_0^2}$	$\frac{80ia_1k}{\sqrt{3}a_0^2}$	$\frac{80i\sqrt{\frac{2}{3}}a_1k}{a_0^2}$	$-\frac{8(a_0+11a_1k^2)}{a_0^2k^2}$	0	0
$\Delta_{2^-}^{\#1}\dagger^{\alpha\beta\chi}$	0	0	0	0	$\frac{4}{a_0-a_1k^2}$	0
$\Delta_{2^-}^{\#2}\dagger^{\alpha\beta\chi}$	0	0	0	0	0	$\frac{4}{a_0-5a_1k^2}$

	$\Gamma_{0^+}^{\#1}$	$\Gamma_{0^+}^{\#2}$	$\Gamma_{0^+}^{\#3}$	$\Gamma_{0^+}^{\#4}$	$h_{0^+}^{\#1}$	$h_{0^+}^{\#2}$	$\Gamma_{0^-}^{\#1}$
$\Gamma_{0^+}^{\#1}\dagger$	$\frac{1}{2}(-a_0+25a_1k^2)$	0	$10\sqrt{\frac{2}{3}}a_1k^2$	$-\frac{10a_1k^2}{\sqrt{3}}$	$-\frac{25ia_1k^3}{2\sqrt{2}}$	0	0
$\Gamma_{0^+}^{\#2}\dagger$	0	0	$\frac{a_0}{2}$	$-\frac{a_0}{2\sqrt{2}}$	0	0	0
$\Gamma_{0^+}^{\#3}\dagger$	$10\sqrt{\frac{2}{3}}a_1k^2$	$\frac{a_0}{2}$	$\frac{23a_1k^2}{3}$	$-\frac{3a_0+46a_1k^2}{6\sqrt{2}}$	$-\frac{10ia_1k^3}{\sqrt{3}}$	0	0
$\Gamma_{0^+}^{\#4}\dagger$	$-\frac{10a_1k^2}{\sqrt{3}}$	$-\frac{a_0}{2\sqrt{2}}$	$-\frac{3a_0+46a_1k^2}{6\sqrt{2}}$	$\frac{1}{6}(3a_0+23a_1k^2)$	$5i\sqrt{\frac{2}{3}}a_1k^3$	0	0
$h_{0^+}^{\#1}\dagger$	$\frac{25ia_1k^3}{2\sqrt{2}}$	0	$\frac{10ia_1k^3}{\sqrt{3}}$	$-5i\sqrt{\frac{2}{3}}a_1k^3$	$\frac{1}{4}k^2(a_0+25a_1k^2)$	0	0
$h_{0^+}^{\#2}\dagger$	0	0	0	0	0	0	0
$\Gamma_{0^-}^{\#1}\dagger$	0	0	0	0	0	0	$\frac{1}{2}(-a_0+a_1k^2)$

	$\Delta_{0^+}^{\#1}$	$\Delta_{0^+}^{\#2}$	$\Delta_{0^+}^{\#3}$	$\Delta_{0^+}^{\#4}$	$\mathcal{T}_{0^+}^{\#1}$	$\mathcal{T}_{0^+}^{\#2}$	$\Delta_{0^-}^{\#1}$
$\Delta_{0^+}^{\#1}\dagger$	$-\frac{2(a_0+25a_1k^2)}{a_0^2}$	$\frac{10\sqrt{6}a_1k^2}{a_0^2}$	$-\frac{10\sqrt{\frac{2}{3}}a_1k^2}{a_0^2}$	$-\frac{20a_1k^2}{\sqrt{3}a_0^2}$	$-\frac{50i\sqrt{2}a_1k}{a_0^2}$	0	0
$\Delta_{0^+}^{\#2}\dagger$	$\frac{10\sqrt{6}a_1k^2}{a_0^2}$	$-\frac{3(a_0+23a_1k^2)}{4a_0^2}$	$\frac{5a_0+23a_1k^2}{4a_0^2}$	$-\frac{a_0-23a_1k^2}{2\sqrt{2}a_0^2}$	$\frac{20i\sqrt{3}a_1k}{a_0^2}$	0	0
$\Delta_{0^+}^{\#3}\dagger$	$-\frac{10\sqrt{\frac{2}{3}}a_1k^2}{a_0^2}$	$\frac{5a_0+23a_1k^2}{4a_0^2}$	$-\frac{9a_0+23a_1k^2}{12a_0^2}$	$-\frac{3a_0+23a_1k^2}{6\sqrt{2}a_0^2}$	$-\frac{20ia_1k}{\sqrt{3}a_0^2}$	0	0
$\Delta_{0^+}^{\#4}\dagger$	$-\frac{20a_1k^2}{\sqrt{3}a_0^2}$	$-\frac{a_0-23a_1k^2}{2\sqrt{2}a_0^2}$	$-\frac{3a_0+23a_1k^2}{6\sqrt{2}a_0^2}$	$\frac{3a_0-23a_1k^2}{6a_0^2}$	$-\frac{20i\sqrt{\frac{2}{3}}a_1k}{a_0^2}$	0	0
$\mathcal{T}_{0^+}^{\#1}\dagger$	$\frac{50i\sqrt{2}a_1k}{a_0^2}$	$-\frac{20i\sqrt{3}a_1k}{a_0^2}$	$\frac{20ia_1k}{\sqrt{3}a_0^2}$	$\frac{20i\sqrt{\frac{2}{3}}a_1k}{a_0^2}$	$\frac{4(a_0-25a_1k^2)}{a_0^2k^2}$	0	0
$\mathcal{T}_{0^+}^{\#2}\dagger$	0	0	0	0	0	0	0
$\Delta_{0^-}^{\#1}\dagger$	0	0	0	0	0	0	$-\frac{2}{a_0-a_1k^2}$

** MassiveAnalysisOfSector... Null

Unitarity conditions