Lagrangian density
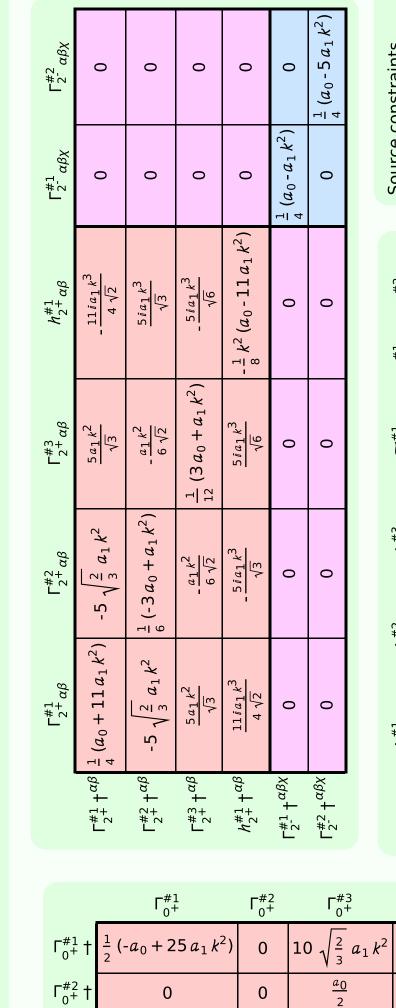
$-\frac{1}{2}a_0\,\Gamma^{\alpha\beta\chi}\,\Gamma_{\beta\chi\alpha}+\frac{1}{2}a_0\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\Gamma^{\chi}{}_{\beta\chi}+h^{\alpha\beta}\,\mathcal{T}_{\alpha\beta}+\Gamma^{\alpha\beta\chi}\,\Delta_{\alpha\beta\chi}-\frac{1}{2}a_0\,\Gamma^{\alpha\beta\chi}\,\partial_{\beta}h_{\alpha\chi}-$

$\frac{1}{4}a_0\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\partial_{\beta}h^{\chi}{}_{\chi}+\frac{1}{4}a_0\,\Gamma^{\alpha\beta}{}_{\alpha}\,\partial_{\beta}h^{\chi}{}_{\chi}-\frac{1}{4}a_0\,h^{\chi}{}_{\chi}\,\partial_{\beta}\Gamma^{\alpha\beta}{}_{\alpha}+\frac{1}{4}a_0\,h^{\chi}{}_{\chi}\,\partial_{\beta}\Gamma^{\alpha\beta}{}_{\alpha}-$

$\frac{1}{2}a_0\,h_{\alpha\chi}\,\partial_{\beta}\Gamma^{\alpha\beta\chi}+\frac{11}{2}a_1\,\partial^{\alpha}\Gamma^{\chi\delta}{}_{\delta}\,\partial_{\beta}\Gamma_{\chi\alpha}{}^{\beta}+\frac{1}{2}a_1\,\partial^{\alpha}\Gamma_{\chi\alpha}{}^{\beta}\,\partial_{\beta}\Gamma^{\chi\delta}{}_{\delta}-$

$19\,a_1\,\partial^{\alpha}\Gamma^{\chi\delta}{}_{\chi}\,\partial_{\beta}\Gamma^{\beta}{}_{\delta\alpha}+\frac{1}{4}a_0\,h^{\alpha\beta}\,\partial_{\beta}\partial_{\alpha}h^{\chi}{}_{\chi}-\frac{1}{8}a_0\,\partial_{\beta}h^{\chi}{}_{\chi}\,\partial^{\beta}h^{\alpha}{}_{\alpha}+$

$\frac{1}{2}a_0\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\partial_{\chi}h_{\beta}{}^{\chi}+\frac{1}{4}a_0\,\partial^{\beta}h^{\alpha}{}_{\alpha}\,\partial_{\chi}h_{\beta}{}^{\chi}+\frac{37}{4}a_1\,\partial_{\beta}h^{\delta}{}_{\delta}\,\partial^{\chi}\Gamma^{\alpha\beta\chi}+$

$\frac{3}{4}a_1\,\partial_{\beta}\Gamma^{\alpha\beta\chi}\,\partial_{\chi}\partial_{\alpha}h^{\delta}{}_{\delta}-\frac{1}{2}a_0\,h^{\alpha\beta}\,\partial_{\beta}\partial_{\chi}h_{\alpha}{}^{\chi}+\frac{1}{4}a_0\,h^{\alpha}{}_{\alpha}\,\partial_{\chi}\partial_{\beta}h^{\beta\chi}+$

$\frac{1}{4}a_0\,h^{\alpha\beta}\,\partial_{\chi}\partial_{\alpha}h_{\alpha\beta}{}^{\chi}-\frac{1}{4}a_0\,h^{\alpha}{}_{\alpha}\,\partial_{\chi}\partial_{\beta}h^{\beta\chi}+\frac{1}{8}a_0\,\partial_{\chi}h_{\alpha\beta}\,\partial^{\chi}h^{\alpha\beta}+$

$\frac{1}{2}a_0\,h_{\beta\chi}\,\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}-\frac{1}{2}a_1\,\partial_{\beta}\Gamma^{\delta}{}_{\delta}{}^{\chi}\,\partial_{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}-\frac{1}{2}a_1\,\partial_{\beta}\Gamma^{\delta}{}_{\delta\chi}\,\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}+$

$\frac{1}{2}a_1\,\partial_{\delta}\Gamma^{\delta}{}_{\beta\chi}\,\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}-\frac{1}{2}a_1\,\partial_{\chi}\Gamma^{\delta}{}_{\delta\beta}\,\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}-\frac{1}{2}a_1\,\partial_{\delta}\Gamma^{\delta}{}_{\alpha\beta}\,\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}-$

$\frac{3}{2}a_1\,\partial_{\beta}h^{\delta}{}_{\delta}\,\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}-\frac{11}{2}a_1\,\partial_{\chi}\Gamma^{\delta}{}_{\delta}{}^{\beta}\,\partial^{\chi}\Gamma^{\alpha\beta}{}_{\alpha}+\frac{19}{2}a_1\,\partial_{\delta}\Gamma^{\delta}{}_{\chi\beta}\,\partial^{\chi}\Gamma^{\alpha\beta}{}_{\alpha}+$

$\frac{11}{2}a_1\,\partial_{\chi}\Gamma^{\delta}{}_{\delta}{}^{\beta}\,\partial^{\chi}\Gamma^{\alpha\beta}{}_{\alpha}-\frac{1}{2}a_1\,\partial_{\delta}\Gamma^{\delta}{}_{\chi\beta}\,\partial^{\chi}\Gamma^{\alpha\beta}{}_{\alpha}-\frac{37}{4}a_1\,\partial_{\chi}\partial_{\beta}h^{\delta}{}_{\delta}\,\partial^{\chi}\Gamma^{\alpha\beta}{}_{\alpha}+$

$a_1\,\partial_{\beta}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\partial_{\delta}\Gamma^{\chi\delta}{}_{\chi}-a_1\,\partial_{\delta}\Gamma^{\alpha}{}_{\alpha\chi}\,\partial^{\chi}\Gamma^{\chi\delta}{}_{\delta}-\frac{9}{2}a_1\,\partial_{\delta}\partial_{\chi}h^{\delta}{}_{\delta}\,\partial^{\chi}\partial_{\alpha}h^{\alpha\beta}+$

$\frac{17}{8}a_1\,\partial_{\chi}\partial_{\beta}h^{\delta}{}_{\delta}\,\partial^{\chi}\partial^{\beta}h^{\alpha}{}_{\alpha}-\frac{1}{2}a_1\,\partial_{\chi}\Gamma^{\alpha\beta\chi}\,\partial_{\delta}\Gamma_{\alpha\beta}{}^{\delta}-\frac{1}{2}a_1\,\partial_{\beta}\Gamma^{\alpha\beta\chi}\,\partial_{\delta}\Gamma_{\alpha\chi}{}^{\delta}-$

$\frac{1}{2}a_1\,\partial_{\beta}\Gamma^{\alpha\beta\chi}\,\partial_{\delta}\Gamma^{\delta}{}_{\alpha\chi}+\frac{19}{2}a_1\,\partial_{\chi}\Gamma^{\alpha\beta\chi}\,\partial_{\delta}\Gamma^{\delta}{}_{\beta\alpha}+a_1\,\partial^{\alpha}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\partial_{\delta}\Gamma_{\beta}{}^{\chi}{}_{\chi}+$

$\frac{1}{2}a_1\,\partial^{\alpha}\Gamma_{\beta\alpha}{}^{\beta}\,\partial_{\delta}\Gamma^{\chi}{}_{\chi}{}^{\delta}+\frac{1}{2}a_1\,\partial^{\alpha}\Gamma^{\alpha\beta}{}_{\alpha}\,\partial_{\delta}\Gamma^{\chi}{}_{\chi}{}^{\delta}-\frac{1}{2}a_1\,\partial^{\alpha}\Gamma^{\alpha\beta}{}_{\alpha}\,\partial_{\delta}\Gamma_{\chi}{}^{\chi\delta}+$

$a_1\,\partial_{\beta}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\partial_{\delta}\Gamma^{\chi}{}_{\chi}{}^{\delta}-\frac{1}{2}a_1\,\partial_{\beta}\Gamma^{\alpha\beta}{}_{\alpha}\,\partial_{\delta}\Gamma^{\chi\delta}{}_{\chi}-\frac{37}{4}a_1\,\partial_{\chi}\Gamma^{\alpha\beta\chi}\,\partial_{\delta}\partial_{\alpha}h_{\beta}{}^{\delta}-$

$\frac{3}{4}a_1\,\partial_{\beta}\Gamma^{\alpha\beta\chi}\,\partial_{\delta}\partial_{\alpha}h_{\chi}{}^{\delta}-\frac{37}{4}a_1\,\partial_{\chi}\Gamma^{\alpha\beta\chi}\,\partial_{\delta}\partial_{\beta}h_{\alpha}{}^{\delta}+\frac{3}{8}a_1\,\partial_{\chi}h^{\alpha\beta}\,\partial_{\delta}\partial_{\beta}h_{\alpha}{}^{\delta}+$

$\frac{37}{8}a_1\,\partial_{\alpha}\partial_{\chi}h^{\alpha\beta}\,\partial_{\delta}\partial_{\beta}h^{\chi}{}_{\delta}+\frac{3}{4}a_1\,\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\partial_{\delta}\partial_{\beta}h_{\chi}{}^{\delta}+\frac{37}{4}a_1\,\partial^{\chi}\Gamma^{\alpha\beta}{}_{\alpha}\,\partial_{\delta}\partial_{\beta}h_{\chi}{}^{\delta}-$

$\frac{3}{4}a_1\,\partial_{\delta}\partial_{\alpha}h^{\alpha\beta}\,\partial_{\delta}\partial_{\beta}h_{\chi}{}^{\delta}+\frac{13}{4}a_1\,\partial^{\chi}\partial_{\beta}h^{\alpha}{}_{\alpha}\,\partial_{\delta}\partial_{\beta}h_{\chi}{}^{\delta}-\frac{3}{4}a_1\,\partial_{\beta}\Gamma^{\delta}{}_{\delta}{}^{\chi}\,\partial^{\beta}\partial_{\delta}h_{\chi}{}^{\delta}+$

$\frac{43}{4}a_1\,\partial_{\alpha}\partial^{\chi}h^{\alpha\beta}\,\partial_{\delta}\partial_{\beta}h^{\chi}{}_{\delta}+\frac{3}{4}a_1\,\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\partial_{\delta}\partial_{\beta}h_{\chi}{}^{\delta}+\frac{37}{4}a_1\,\partial^{\chi}\Gamma^{\alpha\beta}{}_{\alpha}\,\partial_{\delta}\partial_{\beta}h^{\chi}{}_{\delta}+$

$\frac{77}{8}a_1\,\partial^{\chi}\partial_{\alpha}h^{\alpha\beta}\,\partial_{\delta}\partial_{\beta}h_{\chi}{}^{\delta}-\frac{29}{4}a_1\,\partial^{\chi}\partial^{\beta}h^{\alpha}{}_{\alpha}\,\partial_{\delta}\partial_{\chi}h_{\beta}{}^{\delta}+a_1\,\partial_{\beta}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\partial_{\delta}h^{\chi\delta}{}_{\chi}-$

$a_1\,\partial_{\beta}\Gamma^{\alpha\beta}{}_{\alpha}\,\partial_{\delta}\partial_{\chi}h^{\chi\delta}-\frac{1}{2}a_1\,\partial_{\beta}\partial^{\beta}h^{\alpha}{}_{\alpha}\,\partial_{\delta}\partial_{\chi}h^{\chi\delta}+a_1\,\partial_{\beta}\partial^{\beta}h^{\chi}{}_{\chi}\,\partial_{\delta}\partial_{\chi}h^{\chi\delta}+$

$\frac{37}{4}a_1\,\partial_{\chi}\Gamma^{\alpha\beta\chi}\,\partial_{\delta}\partial_{\alpha}h_{\alpha\beta}+\frac{17}{8}a_1\,\partial_{\chi}h^{\alpha\beta}\,\partial_{\delta}\partial^{\delta}h_{\alpha\beta}+\frac{3}{4}a_1\,\partial_{\beta}\Gamma^{\alpha\beta\chi}\,\partial_{\delta}\partial^{\delta}h_{\alpha\chi}+$

$\frac{1}{4}a_1\,\partial_{\chi}h^{\alpha\beta}\,\partial_{\delta}\partial^{\delta}h_{\beta\chi}-\frac{3}{4}a_1\,\partial_{\chi}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\partial_{\delta}\partial^{\delta}h_{\beta\chi}-\frac{37}{4}a_1\,\partial_{\chi}\Gamma^{\alpha\beta}{}_{\alpha}\,\partial_{\delta}\partial^{\delta}h_{\beta\chi}-$

$\frac{73}{8}a_1\,\partial_{\chi}h^{\alpha\beta}\,\partial_{\delta}\partial^{\delta}h_{\beta\chi}+\frac{17}{4}a_1\,\partial^{\chi}\partial^{\beta}h^{\alpha}{}_{\alpha}\,\partial_{\delta}\partial^{\delta}h_{\beta\chi}-a_1\,\partial_{\beta}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\partial_{\delta}\partial^{\delta}h^{\chi}{}_{\chi}+$

$a_1\,\partial_{\beta}\Gamma^{\alpha\beta}{}_{\alpha}\,\partial_{\delta}\partial^{\delta}h^{\chi}{}_{\chi}-\frac{1}{2}a_1\,\partial_{\beta}\partial^{\beta}h^{\alpha}{}_{\alpha}\,\partial_{\delta}\partial^{\delta}h^{\chi}{}_{\chi}+\frac{1}{2}a_1\,\partial_{\chi}\Gamma_{\beta\chi\delta}\,\partial^{\delta}\Gamma^{\alpha\beta\chi}+$

$a_1\,\partial_{\chi}\Gamma_{\beta\delta\chi}\,\partial^{\delta}\Gamma^{\alpha\beta\chi}+a_1\,\partial_{\chi}\Gamma_{\chi\beta\delta}\,\partial^{\delta}\Gamma^{\alpha\beta\chi}+\frac{1}{2}a_1\,\partial_{\chi}\Gamma_{\chi\delta\beta}\,\partial^{\delta}\Gamma^{\alpha\beta\chi}+$

$a_1\,\partial_{\chi}\Gamma_{\delta\beta\chi}\,\partial^{\delta}\Gamma^{\alpha\beta\chi}+a_1\,\partial_{\chi}\Gamma_{\delta\chi\beta}\,\partial^{\delta}\Gamma^{\alpha\beta\chi}-\frac{1}{2}a_1\,\partial_{\beta}\Gamma_{\alpha\chi\delta}\,\partial^{\delta}\Gamma^{\alpha\beta\chi}-\frac{1}{2}a_1\,\partial_{\delta}\Gamma_{\alpha\chi\beta}\,\partial^{\delta}\Gamma^{\alpha\beta\chi}-$

$\frac{1}{2}a_1\,\partial_{\chi}\Gamma_{\delta\alpha}\,\partial^{\delta}\Gamma^{\alpha\beta\chi}-\frac{3}{2}a_1\,\partial_{\delta}\partial_{\alpha}h_{\beta\chi}\,\partial^{\delta}\Gamma^{\alpha\beta\chi}-\frac{1}{2}a_1\,\partial_{\delta}\Gamma_{\alpha\beta\chi}\,\partial^{\delta}\Gamma^{\alpha\beta\chi}-$

$a_1\,\partial_{\chi}\Gamma_{\beta\delta\alpha}\,\partial^{\delta}\Gamma^{\alpha\beta\chi}+a_1\,\partial_{\chi}\Gamma_{\beta\alpha\delta}\,\partial^{\delta}\Gamma^{\alpha\beta\chi}+\frac{3}{2}a_1\,\partial_{\delta}h_{\alpha\beta}\,\partial^{\delta}\partial_{\chi}\Gamma^{\alpha\beta\chi}-\frac{3}{2}a_1\,\partial_{\delta}h_{\alpha\beta}\,\partial^{\delta}\partial^{\chi}\Gamma^{\alpha\beta\chi}+$

$\frac{11}{2}a_1\,\partial_{\beta}\partial^{\beta}h_{\chi\alpha}\,\partial^{\chi}\Gamma^{\alpha}{}_{\alpha}-\frac{1}{2}a_1\,\partial_{\beta}\Gamma^{\alpha}{}_{\delta}\,\partial^{\beta}\partial_{\chi}\Gamma^{\chi}{}_{\alpha}+\frac{1}{2}a_1\,\partial_{\beta}\Gamma_{\alpha}{}^{\beta}{}_{\delta}\,\partial^{\delta}\Gamma^{\chi}{}_{\chi}{}^{\alpha}-$

$\frac{3}{4}a_1\,\partial_{\beta}\partial_{\alpha}h_{\chi\delta}\,\partial^{\delta}\partial^{\chi}h^{\alpha\beta}+\frac{3}{2}a_1\,\partial_{\chi}\partial_{\beta}h_{\alpha\delta}\,\partial^{\delta}\partial^{\chi}h^{\alpha\beta}-\frac{3}{4}a_1\,\partial_{\delta}h_{\alpha\beta}\,\partial^{\delta}\partial^{\chi}h^{\alpha\beta}$

Boxed irreps

$$\Gamma^{\#1}_{3^-\,\alpha\beta\chi}$$

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

$$\Delta^{\#1}_{3^-\,\alpha\beta\chi}$$

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

Source constraints

#	1	1	3	3	8
SO(3) irreps					

$\mathcal{T}^{\#2}_{0^+}=0$

$\Delta^{\#3}_{0^+}+2\Delta^{\#4}_{0^+}+3\Delta^{\#2}_{0^+}==0$

$\mathcal{T}^{\#1\alpha}_{1^-}==0$

$2\Delta^{\#6\alpha}_{1^-}+\Delta^{\#4\alpha}_{1^-}+2\Delta^{\#5\alpha}_{1^-}==0$

Total #: 8

$1^\pm$ sector matrix

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

1^- sector (Γ,h)

	$\Delta^{\#1}_{1^+}\dagger^{\alpha\beta}$	$\Delta^{\#2}_{1^+}\dagger^{\alpha\beta}$	$\Delta^{\#3}_{1^+}\dagger^{\alpha\beta}$	$\Gamma^{\#1}_{1^-}\dagger^{\alpha}$	$\Gamma^{\#2}_{1^-}\dagger^{\alpha}$	$\Gamma^{\#3}_{1^-}\dagger^{\alpha}$	$\Gamma^{\#4}_{1^-}\dagger^{\alpha}$	$\Gamma^{\#5}_{1^-}\dagger^{\alpha}$	$\Gamma^{\#6}_{1^-}\dagger^{\alpha}$	$h^{\#1}_{1^-}\dagger^{\alpha}$
$h^{\#1}_{1^-}{}^{\alpha}$	0	0	0	0	0	$-\frac{5a_1k^2}{\sqrt{3}}$	$5\sqrt{\frac{5}{3}}a_1k^2$	$\frac{1}{6}(-a_0+20a_1k^2)$	$-\frac{1}{6}\sqrt{5}(a_0+40a_1k^2)\frac{6\sqrt{2}}{}$	0
$\Gamma^{\#6}_{1^-}{}^{\alpha}$	0	0	0	0	0	$5\sqrt{\frac{3}{2}}a_1k^2$		$-\frac{a_0}{6\sqrt{2}}$	$-\frac{1}{6}\sqrt{5}(a_0+16a_1k^2)$	$-\frac{1}{6}\sqrt{5}(a_0+40a_1k^2)\frac{6\sqrt{2}}{}$
$\Gamma^{\#5}_{1^-}{}^{\alpha}$	0	0	0	0	$5\sqrt{3}a_1k^2$		$-\frac{a_0}{6\sqrt{2}}$	$\frac{1}{6}(a_0-5a_1k^2)$	$\frac{a_0+40a_1k^2}{6\sqrt{2}}$	$\frac{a_0}{3}$
$\Gamma^{\#4}_{1^-}{}^{\alpha}$	0	0	0	0	$-\frac{5}{2}\sqrt{\frac{5}{3}}a_1k^2$	$\frac{1}{6}(a_0-8a_1k^2)$	$\sqrt{5}\frac{1}{3}(a_0+7a_1k^2)$	$-\frac{1}{6}\sqrt{5}(a_0-5a_1k^2)$	$\frac{1}{6}(a_0+16a_1k^2)$	$-\frac{1}{6}\sqrt{5}(a_0-5a_1k^2)$
$\Gamma^{\#3}_{1^-}{}^{\alpha}$	0	0	0	0	$\frac{5}{2}\sqrt{\frac{5}{3}}a_1k^2$		$-\frac{a_0}{3}$	$\frac{1}{6}(a_0-8a_1k^2)$	$\frac{1}{6}(-a_0+20a_1k^2)$	$-\frac{a_0}{6\sqrt{2}}$
$\Gamma^{\#2}_{1^-}{}^{\alpha}$	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
$\Gamma^{\#1}_{1^-}{}^{\alpha}$	0	0	0	$\frac{a_0}{2\sqrt{2}}$						0

$\Gamma^{\#2}_{2^-}\alpha\beta\chi$ block

	$\Gamma^{\#2}_{2^-}\dagger^{\alpha\beta\chi}$
$\Gamma^{\#2}_{2^-}{}^{\alpha\beta\chi}$	$\frac{1}{4}(a_0-5a_1k^2)$

	$\Gamma^{\#1}_{2^-}\dagger^{\alpha\beta\chi}$
$\Gamma^{\#1}_{2^-}{}^{\alpha\beta\chi}$	$\frac{1}{4}(a_0-a_1k^2)$

2^+ sector matrix

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

$\Delta_2^{\#}$ blocks

	$\Delta^{\#1}_{2^+}\dagger^{\alpha\beta}$	$\Delta^{\#2}_{2^+}\dagger^{\alpha\beta}$
$\Delta^{\#2}_{2^-}{}^{\alpha\beta\chi}$	0	$\frac{4}{a_0-5a_1k^2}$
$\Delta^{\#1}_{2^-}{}^{\alpha\beta\chi}$	$\frac{4}{a_0-a_1k^2}$	0

	$\mathcal{T}^{\#1}_{2^+}\dagger^{\alpha\beta}$	$\Delta^{\#1}_{2^+}\dagger^{\alpha\beta\chi}$	$\Delta^{\#2}_{2^+}\dagger^{\alpha\beta\chi}$
$\mathcal{T}^{\#1}_{2^+}{}^{\alpha\beta}$	$\frac{44i\sqrt{2}a_1k}{a_0^2}$	$-\frac{80i\sqrt{\frac{2}{3}}a_1k}{\sqrt{3}a_0^2}$	$80i\sqrt{\frac{2}{3}}\frac{a_1k}{a_0^2}$	$-\frac{8(a_0+11a_1k^2)}{a_0^2}$
$\Delta^{\#3}_{2^+}{}^{\alpha\beta}$	$-\frac{80a_1k^2}{\sqrt{3}a_0^2}$	$-2\sqrt{2}\frac{a_1k^2}{3a_0^2}$	$\frac{4(3a_0a_1k^2)}{3a_0^2}$	$80i\sqrt{\frac{2}{3}}\frac{a_1k}{a_0^2}$
$\Delta^{\#2}_{2^+}{}^{\alpha\beta}$	$40\sqrt{\frac{2}{3}}\frac{a_1k^2}{a_0^2}$	$\frac{2(3a_0a_1k^2)}{3a_0^2}$	$-2\sqrt{2}\frac{a_1k^2}{3a_0^2}$	$-\frac{80i\sqrt{\frac{2}{3}}a_1k}{\sqrt{3}a_0^2}$
$\Delta^{\#1}_{2^+}{}^{\alpha\beta}$	$\frac{4(a_0-11a_1k^2)}{a_0^2}$	$40\sqrt{\frac{2}{3}}\frac{a_1k^2}{a_0^2}$	$-\frac{80a_1k^2}{\sqrt{3}a_0^2}$	$\frac{44i\sqrt{2}a_1k}{a_0^2}$

0^+ sector matrix

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

0^+ sector (Δ) matrix

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

** MassiveAnalysisOfSector...Null