	$\Delta^{\#1}_{1^+\alpha\beta}$	$\Delta^{\#2}_{1^+\alpha\beta}$	$\Delta^{\#3}_{1^+\alpha\beta}$	$\Delta^{\#1}_{1^-\alpha}$	$\Delta^{\#2}_{1^-\alpha}$	$\Delta^{\#3}_{1^-\alpha}$	$\Delta^{\#4}_{1^-\alpha}$	$\Delta^{\#5}_{1^-\alpha}$	$\Delta^{\#6}_{1^-\alpha}$	$\mathcal{T}^{\#1}_{1^-\alpha}$
$\Delta^{\#1}_{1^+}{}^\dagger{}^{\alpha\beta}$	$\frac{4}{3}\left(-\frac{1}{a_0+4a_1-4a_2}+\frac{2a_1+a_2-2a_5-6a_7+2a_9}{2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9)}\right)$	$\frac{2}{3}\sqrt{2}\left(-\frac{1}{a_0+4a_1-4a_2}-\frac{2(2a_1+a_2-2a_5-6a_7+2a_9)}{2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9)}\right)$	$-\frac{4(2a_1+a_2+a_9)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	0	0	0	0	0	0	0
$\Delta^{\#2}_{1^+}{}^\dagger{}^{\alpha\beta}$	$\frac{2}{3}\sqrt{2}\left(-\frac{1}{a_0+4a_1-4a_2}-\frac{2(2a_1+a_2-2a_5-6a_7+2a_9)}{2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9)}\right)$	$-\frac{2}{3(a_0+4a_1-4a_2)}+\frac{8(2a_1+a_2-2a_5-6a_7+2a_9)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	$\frac{4\sqrt{2}(2a_1+a_2+a_9)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	0	0	0	0	0	0	0
$\Delta^{\#3}_{1^+}{}^\dagger{}^{\alpha\beta}$	$-\frac{4(2a_1+a_2+a_9)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	$\frac{4\sqrt{2}(2a_1+a_2+a_9)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	$-\frac{4(a_0-2a_1-a_2)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	0	0	0	0	0	0	0
$\Delta^{\#1}_{1^-}{}^\dagger{}^{\alpha}$	0	0	0	$\frac{4(2a_1+a_2-2a_5-6a_7+2a_9)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	$\frac{4\sqrt{2}(2a_1+a_2-2a_5-6a_7+2a_9)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	0	0	$-\frac{4\sqrt{\frac{2}{3}}(2a_1+a_2+a_9)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	$\frac{4(2a_1+a_2+a_9)}{3\sqrt{3}(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	0
$\Delta^{\#2}_{1^-}{}^\dagger{}^{\alpha}$	0	0	0	$\frac{4\sqrt{2}(2a_1+a_2-2a_5-6a_7+2a_9)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	$\frac{8(2a_1+a_2-2a_5-6a_7+2a_9)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	0	0	$-\frac{8(2a_1+a_2+a_9)}{3\sqrt{3}(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	$\frac{4\sqrt{\frac{2}{3}}(2a_1+a_2+a_9)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	0
$\Delta^{\#3}_{1^-}{}^\dagger{}^{\alpha}$	0	0	0	0	0	$-\frac{10}{9(a_0+2a_5-6a_7)}-\frac{1}{6(3a_0-2(a_5-8a_6+5a_7-4c_{13}k^2))}$	$\frac{1}{18}\sqrt{5}\left(\frac{4}{a_0+2a_5-6a_7}-\frac{3}{3a_0-2a_5+16a_6-10a_7+8c_{13}k^2}\right)$	$-\frac{1}{\sqrt{2}(9a_0-6(a_5-8a_6+5a_7-4c_{13}k^2))}$	$-\frac{1}{9a_0-6(a_5-8a_6+5a_7-4c_{13}k^2)}$	0
$\Delta^{\#4}_{1^-}{}^\dagger{}^{\alpha}$	0	0	0	0	0	$\frac{1}{18}\sqrt{5}\left(\frac{4}{a_0+2a_5-6a_7}-\frac{3}{3a_0-2a_5+16a_6-10a_7+8c_{13}k^2}\right)$	$-\frac{2}{9(a_0+2a_5-6a_7)}-\frac{5}{6(3a_0-2(a_5-8a_6+5a_7-4c_{13}k^2))}$	$-\frac{\sqrt{\frac{5}{2}}}{9a_0-6(a_5-8a_6+5a_7-4c_{13}k^2)}$	$-\frac{\sqrt{5}}{9a_0-6(a_5-8a_6+5a_7-4c_{13}k^2)}$	0
$\Delta^{\#5}_{1^-}{}^\dagger{}^{\alpha}$	0	0	0	$-\frac{4\sqrt{\frac{2}{3}}(2a_1+a_2+a_9)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	$-\frac{8(2a_1+a_2+a_9)}{3\sqrt{3}(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	$-\frac{1}{\sqrt{2}(9a_0-6(a_5-8a_6+5a_7-4c_{13}k^2))}$	$-\frac{\sqrt{\frac{5}{2}}}{9a_0-6(a_5-8a_6+5a_7-4c_{13}k^2)}$	$\frac{8(-a_0+2a_1+a_2)}{9(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}-\frac{1}{9a_0-6(a_5-8a_6+5a_7-4c_{13}k^2)}$	$(\sqrt{2}(12a_0^2-3a_9^2-a_0(30a_1+15a_2+2a_5-64a_6+22a_7+6a_9-32c_{13}k^2)+2(2a_1+a_2)(a_5-32a_6+11a_7-16c_{13}k^2)))/(9(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))(3a_0-2(a_5-8a_6+5a_7-4c_{13}k^2)))$	0
$\Delta^{\#6}_{1^-}{}^\dagger{}^{\alpha}$	0	0	0	$\frac{4(2a_1+a_2+a_9)}{3\sqrt{3}(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	$\frac{4\sqrt{\frac{2}{3}}(2a_1+a_2+a_9)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	$-\frac{1}{9a_0-6(a_5-8a_6+5a_7-4c_{13}k^2)}$	$-\frac{\sqrt{5}}{9a_0-6(a_5-8a_6+5a_7-4c_{13}k^2)}$	$(\sqrt{2}(12a_0^2-3a_9^2-a_0(30a_1+15a_2+2a_5-64a_6+22a_7+6a_9-32c_{13}k^2)+2(2a_1+a_2)(a_5-32a_6+11a_7-16c_{13}k^2)))/(9(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))(3a_0-2(a_5-8a_6+5a_7-4c_{13}k^2)))$	$\frac{-4a_0+8a_1+4a_2}{9(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}-\frac{2}{9a_0-6(a_5-8a_6+5a_7-4c_{13}k^2)}$	0
$\mathcal{T}^{\#1}_{1^-}{}^\dagger{}^{\alpha}$	0	0	0	0	0	0	0	0	0	0

	$\Gamma^{\#1}_{1^+\alpha\beta}$	$\Gamma^{\#2}_{1^+\alpha\beta}$	$\Gamma^{\#3}_{1^+\alpha\beta}$	$\Gamma^{\#1}_{1^-\alpha}$	$\Gamma^{\#2}_{1^-\alpha}$	$\Gamma^{\#3}_{1^-\alpha}$	$\Gamma^{\#4}_{1^-\alpha}$	$\Gamma^{\#5}_{1^-\alpha}$	$\Gamma^{\#6}_{1^-\alpha}$	$h^{\#1}_{1^-\alpha}$
$\Gamma^{\#1}_{1^+}{}^\dagger{}^{\alpha\beta}$	$\frac{1}{4}(-a_0-6a_1+5a_2)$	$-\frac{a_0+2a_1-3a_2}{2\sqrt{2}}$	$\frac{1}{4}(-2a_1-a_2-a_9)$	0	0	0	0	0	0	0
$\Gamma^{\#2}_{1^+}{}^\dagger{}^{\alpha\beta}$	$-\frac{a_0+2a_1-3a_2}{2\sqrt{2}}$	$\frac{1}{2}(-2a_1+a_2)$	$\frac{2a_1+a_2+a_9}{2\sqrt{2}}$	0	0	0	0	0	0	0
$\Gamma^{\#3}_{1^+}{}^\dagger{}^{\alpha\beta}$	$\frac{1}{4}(-2a_1-a_2-a_9)$	$\frac{2a_1+a_2+a_9}{2\sqrt{2}}$	$-\frac{3}{4}(2a_1+a_2-2a_5-6a_7+2a_9)$	0	0	0	0	0	0	0
$\Gamma^{\#1}_{1^-}{}^\dagger{}^{\alpha}$	0	0	0	$\frac{1}{12}(a_0-2a_1-a_2)$	$\frac{a_0-2a_1-a_2}{6\sqrt{2}}$	0	0	$-\frac{2a_1+a_2+a_9}{2\sqrt{6}}$	$\frac{2a_1+a_2+a_9}{4\sqrt{3}}$	0
$\Gamma^{\#2}_{1^-}{}^\dagger{}^{\alpha}$	0	0	0	$\frac{a_0-2a_1-a_2}{6\sqrt{2}}$	$\frac{1}{6}(a_0-2a_1-a_2)$	0	0	$-\frac{2a_1+a_2+a_9}{2\sqrt{3}}$	$\frac{2a_1+a_2+a_9}{2\sqrt{6}}$	0
$\Gamma^{\#3}_{1^-}{}^\dagger{}^{\alpha}$	0	0	0	0	0	$\frac{1}{12}(-9a_0-14a_5-8a_6+50a_7-4c_{13}k^2)$	$\frac{1}{3}\sqrt{5}(a_5-2a_6-a_7-c_{13}k^2)$	$\frac{-3a_0+2(a_5-8a_6+5a_7-4c_{13}k^2)}{12\sqrt{2}}$	$-\frac{a_0}{4}+\frac{1}{6}(a_5-8a_6+5a_7-4c_{13}k^2)$	0
$\Gamma^{\#4}_{1^-}{}^\dagger{}^{\alpha}$	0	0	0	0	0	$\frac{1}{3}\sqrt{5}(a_5-2a_6-a_7-c_{13}k^2)$	$\frac{1}{12}(-9a_0+2a_5-40a_6+34a_7-20c_{13}k^2)$	$\frac{1}{12}\sqrt{\frac{5}{2}}(-3a_0+2(a_5-8a_6+5a_7-4c_{13}k^2))$	$\frac{1}{12}\sqrt{5}(-3a_0+2(a_5-8a_6+5a_7-4c_{13}k^2))$	0
$\Gamma^{\#5}_{1^-}{}^\dagger{}^{\alpha}$	0	0	0	$-\frac{2a_1+a_2+a_9}{2\sqrt{6}}$	$-\frac{2a_1+a_2+a_9}{2\sqrt{3}}$	$\frac{-3a_0+2(a_5-8a_6+5a_7-4c_{13}k^2)}{12\sqrt{2}}$	$\frac{1}{12}\sqrt{\frac{5}{2}}(-3a_0+2(a_5-8a_6+5a_7-4c_{13}k^2))$	$\frac{1}{12}(-3a_0-2(6a_1+3a_2-7a_5+8a_6-23a_7+6a_9+4c_{13}k^2))$	$-\frac{3a_0-6a_1-3a_2+4a_5+16a_6+8a_7-6a_9+8c_{13}k^2}{6\sqrt{2}}$	0
$\Gamma^{\#6}_{1^-}{}^\dagger{}^{\alpha}$	0	0	0	$\frac{2a_1+a_2+a_9}{4\sqrt{3}}$	$\frac{2a_1+a_2+a_9}{2\sqrt{6}}$	$-\frac{a_0}{4}+\frac{1}{6}(a_5-8a_6+5a_7-4c_{13}k^2)$	$\frac{1}{12}\sqrt{5}(-3a_0+2(a_5-8a_6+5a_7-4c_{13}k^2))$	$-\frac{3a_0-6a_1-3a_2+4a_5+16a_6+8a_7-6a_9+8c_{13}k^2}{6\sqrt{2}}$	$\frac{1}{12}(-6a_0-6a_1-3a_2+10a_5-32a_6+38a_7-6a_9-16c_{13}k^2)$	0
$h^{\#1}_{1^-}{}^\dagger{}^{\alpha}$	0	0	0	0	0	0	0	0	0	0

Lagrangian density

$$-\frac{1}{3}a_0\,\Gamma_{\alpha}{}^{\mu}{}_{\mu}\,\Gamma^{\alpha\beta}{}_{\beta}+\frac{1}{3}a_1\,\Gamma_{\alpha}{}^{\mu}{}_{\mu}\,\Gamma^{\alpha\beta}{}_{\beta}+\frac{1}{6}a_2\,\Gamma_{\alpha}{}^{\mu}{}_{\mu}\,\Gamma^{\alpha\beta}{}_{\beta}-2a_6\,\Gamma_{\alpha}{}^{\mu}{}_{\mu}\,\Gamma^{\alpha\beta}{}_{\beta}+\frac{1}{3}a_9\,\Gamma_{\alpha}{}^{\mu}{}_{\mu}\,\Gamma^{\alpha\beta}{}_{\beta}-\frac{1}{8}a_0\,\Gamma_{\alpha\beta\mu}\,\Gamma^{\alpha\beta\mu}-a_1\,\Gamma_{\alpha\beta\mu}\,\Gamma^{\alpha\beta\mu}+$$
$$\frac{1}{4}a_5\,\Gamma_{\alpha\beta\mu}\,\Gamma^{\alpha\beta\mu}+\frac{9}{4}a_7\,\Gamma_{\alpha\beta\mu}\,\Gamma^{\alpha\beta\mu}-\frac{1}{2}a_9\,\Gamma_{\alpha\beta\mu}\,\Gamma^{\alpha\beta\mu}-\frac{1}{8}a_0\,\Gamma_{\alpha\mu\beta}\,\Gamma^{\alpha\beta\mu}-\frac{1}{2}a_2\,\Gamma_{\alpha\mu\beta}\,\Gamma^{\alpha\beta\mu}+\frac{1}{4}a_5\,\Gamma_{\alpha\mu\beta}\,\Gamma^{\alpha\beta\mu}+\frac{9}{4}a_7\,\Gamma_{\alpha\mu\beta}\,\Gamma^{\alpha\beta\mu}-\frac{1}{2}a_9\,\Gamma_{\alpha\mu\beta}\,\Gamma^{\alpha\beta\mu}-$$
$$\frac{1}{2}a_2\,\Gamma^{\alpha\beta\mu}\,\Gamma_{\beta\alpha\mu}-\frac{1}{2}a_5\,\Gamma^{\alpha\beta\mu}\,\Gamma_{\beta\alpha\mu}-\frac{1}{2}a_0\,\Gamma^{\alpha\beta\mu}\,\Gamma_{\beta\mu\alpha}+a_2\,\Gamma^{\alpha\beta\mu}\,\Gamma_{\beta\mu\alpha}-a_5\,\Gamma^{\alpha\beta\mu}\,\Gamma_{\beta\mu\alpha}+\frac{1}{2}a_9\,\Gamma^{\alpha\beta\mu}\,\Gamma_{\beta\mu\alpha}+\frac{1}{12}a_0\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\Gamma_{\beta}{}^{\mu}{}_{\mu}-\frac{2}{3}a_1\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\Gamma_{\beta}{}^{\mu}{}_{\mu}-$$
$$\frac{1}{3}a_2\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\Gamma_{\beta}{}^{\mu}{}_{\mu}+\frac{1}{2}a_5\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\Gamma_{\beta}{}^{\mu}{}_{\mu}+\frac{1}{2}a_7\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\Gamma_{\beta}{}^{\mu}{}_{\mu}-\frac{1}{2}a_9\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\Gamma_{\beta}{}^{\mu}{}_{\mu}+\frac{1}{12}a_0\,\Gamma^{\alpha\beta}{}_{\alpha}\,\Gamma_{\beta}{}^{\mu}{}_{\mu}+\frac{1}{2}a_5\,\Gamma^{\alpha\beta}{}_{\alpha}\,\Gamma_{\beta}{}^{\mu}{}_{\mu}+\frac{1}{2}a_7\,\Gamma^{\alpha\beta}{}_{\alpha}\,\Gamma_{\beta}{}^{\mu}{}_{\mu}-\frac{1}{6}a_9\,\Gamma^{\alpha\beta}{}_{\alpha}\,\Gamma_{\beta}{}^{\mu}{}_{\mu}+$$
$$a_1\,\Gamma^{\alpha\beta\mu}\,\Gamma_{\mu\beta\alpha}-\frac{1}{2}a_5\,\Gamma^{\alpha\beta\mu}\,\Gamma_{\mu\beta\alpha}+\frac{1}{2}a_9\,\Gamma^{\alpha\beta\mu}\,\Gamma_{\mu\beta\alpha}+\frac{1}{6}a_0\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\Gamma^{\mu}{}_{\beta\mu}-a_7\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\Gamma^{\mu}{}_{\beta\mu}+\frac{1}{6}a_9\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\Gamma^{\mu}{}_{\beta\mu}-\frac{1}{2}a_7\,\Gamma^{\alpha\beta}{}_{\alpha}\,\Gamma^{\mu}{}_{\beta\mu}+\frac{1}{3}a_1\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\Gamma^{\mu}{}_{\mu\beta}+$$
$$\frac{1}{6}a_2\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\Gamma^{\mu}{}_{\mu\beta}-\frac{1}{2}a_7\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\Gamma^{\mu}{}_{\mu\beta}+\frac{1}{6}a_9\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\Gamma^{\mu}{}_{\mu\beta}-\frac{1}{2}a_0\,\Gamma^{\alpha\beta\mu}\,\partial_{\beta}h_{\alpha\mu}-\frac{1}{4}a_0\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\partial_{\beta}h^{\mu}{}_{\mu}+\frac{1}{4}a_0\,\Gamma^{\alpha\beta}{}_{\alpha}\,\partial_{\beta}h^{\mu}{}_{\mu}-\frac{1}{4}a_0\,h^{\mu}{}_{\mu}\,\partial_{\beta}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}+$$
$$\frac{1}{4}a_0\,h^{\mu}{}_{\mu}\,\partial_{\beta}\Gamma^{\alpha\beta}{}_{\alpha}-\frac{1}{2}a_0\,h_{\alpha\mu}\,\partial_{\beta}\Gamma^{\alpha\beta\mu}+\frac{1}{4}a_0\,h^{\alpha\beta}\,\partial_{\beta}\partial_{\alpha}h^{\mu}{}_{\mu}-\frac{1}{8}a_0\,\partial_{\beta}h^{\mu}{}_{\mu}\partial^{\beta}h^{\alpha}{}_{\alpha}+\frac{1}{2}a_0\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\partial_{\mu}h_{\beta}{}^{\mu}+\frac{1}{4}a_0\,\partial^{\beta}h^{\alpha}{}_{\alpha}\partial_{\mu}h_{\beta}{}^{\mu}-$$
$$\frac{1}{2}a_0\,h^{\alpha\beta}\,\partial_{\mu}\partial_{\beta}h_{\alpha}{}^{\mu}+\frac{1}{4}a_0\,h^{\alpha}{}_{\alpha}\,\partial_{\mu}\partial_{\beta}h^{\beta\mu}+\frac{1}{4}a_0\,h^{\alpha\beta}\,\partial_{\mu}\partial^{\mu}h_{\alpha\beta}-\frac{1}{4}a_0\,h^{\alpha}{}_{\alpha}\,\partial_{\mu}\partial^{\mu}h^{\beta}{}_{\beta}-\frac{1}{4}a_0\,\partial_{\beta}h_{\alpha\mu}\partial^{\mu}h^{\alpha\beta}+\frac{1}{8}a_0\,\partial_{\mu}h_{\alpha\beta}\partial^{\mu}h^{\alpha\beta}+$$
$$\frac{1}{2}a_0\,h_{\beta\mu}\,\partial^{\mu}\Gamma^{\alpha}{}_{\alpha}{}^{\beta}+c_{13}\,\partial_{\alpha}\Gamma_{\mu}{}^{\nu}{}_{\nu}\partial^{\mu}\Gamma^{\alpha\beta}{}_{\beta}-c_{13}\,\partial_{\mu}\Gamma_{\alpha}{}^{\nu}{}_{\nu}\partial^{\mu}\Gamma^{\alpha\beta}{}_{\beta}$$

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

	$\Gamma^{\#1}_{2^+\alpha\beta}$	$\Gamma^{\#2}_{2^+\alpha\beta}$	$\Gamma^{\#3}_{2^+\alpha\beta}$	$h^{\#1}_{2^+\alpha\beta}$	$\Gamma^{\#1}_{2^-\alpha\beta\chi}$	$\Gamma^{\#2}_{2^-\alpha\beta\chi}$
$\Gamma^{\#1}_{2^+}{}^\dagger{}^{\alpha\beta}$	$\frac{1}{4}(a_0-2a_1-a_2)$	0	$-\frac{1}{4}\sqrt{3}(2a_1+a_2+a_9)$	0	0	0
$\Gamma^{\#2}_{2^+}{}^\dagger{}^{\alpha\beta}$	0	$-\frac{3}{4}(a_0+2a_5-6a_7)$	0	0	0	0
$\Gamma^{\#3}_{2^+}{}^\dagger{}^{\alpha\beta}$	$-\frac{1}{4}\sqrt{3}(2a_1+a_2+a_9)$	0	$-\frac{3}{4}(2a_1+a_2-2a_5-6a_7+2a_9)$	0	0	0
$h^{\#1}_{2^+}{}^\dagger{}^{\alpha\beta}$	0	0	0	$-\frac{a_0k^2}{8}$	0	0
$\Gamma^{\#1}_{2^-}{}^\dagger{}^{\alpha\beta\chi}$	0	0	0	0	$\frac{1}{4}(a_0-2a_1-a_2)$	$-\frac{1}{4}\sqrt{3}(2a_1+a_2+a_9)$
$\Gamma^{\#2}_{2^-}{}^\dagger{}^{\alpha\beta\chi}$	0	0	0	0	$-\frac{1}{4}\sqrt{3}(2a_1+a_2+a_9)$	$-\frac{3}{4}(2a_1+a_2-2a_5-6a_7+2a_9)$

	$\Gamma^{\#1}_{0^+}$	$\Gamma^{\#2}_{0^+}$	$\Gamma^{\#3}_{0^+}$	$\Gamma^{\#4}_{0^+}$	$h^{\#1}_{0^+}$	$h^{\#2}_{0^+}$	$\Gamma^{\#1}_{0^-}$
$\Gamma^{\#1}_{0^+}{}^\dagger$	0	0	0	0	0	0	0
$\Gamma^{\#2}_{0^+}{}^\dagger$	0	$\frac{1}{4}(-3a_0-2(a_5+4a_6-7a_7))$	$a_5-2a_6-a_7$	$\frac{-3a_0+2(a_5-8a_6+5a_7)}{4\sqrt{2}}$	0	0	0
$\Gamma^{\#3}_{0^+}{}^\dagger$	0	$a_5-2a_6-a_7$	$\frac{1}{4}(-3a_0-2(a_5+4a_6-7a_7))$	$\frac{-3a_0+2(a_5-8a_6+5a_7)}{4\sqrt{2}}$	0	0	0
$\Gamma^{\#4}_{0^+}{}^\dagger$	0	$\frac{-3a_0+2(a_5-8a_6+5a_7)}{4\sqrt{2}}$	$\frac{-3a_0+2(a_5-8a_6+5a_7)}{4\sqrt{2}}$	$\frac{1}{4}(-3a_0+2(a_5-8a_6+5a_7))$	0	0	0
$h^{\#1}_{0^+}{}^\dagger$	0	0	0	0	$\frac{a_0k^2}{4}$	0	0
$h^{\#2}_{0^+}{}^\dagger$	0	0	0	0	0	0	0
$\Gamma^{\#1}_{0^-}{}^\dagger$	0	0	0	0	0	0	$-\frac{a_0}{2}-2a_1+2a_2$

	$\Delta^{\#1}_{0^+}$	$\Delta^{\#2}_{0^+}$	$\Delta^{\#3}_{0^+}$	$\Delta^{\#4}_{0^+}$	$\mathcal{T}^{\#1}_{0^+}$	$\mathcal{T}^{\#2}_{0^+}$	$\Delta^{\#1}_{0^-}$
$\Delta^{\#1}_{0^+}{}^\dagger$	0	0	0	0	0	0	0
$\Delta^{\#2}_{0^+}{}^\dagger$	0	$-\frac{2}{3(a_0+2a_5-6a_7)}-\frac{1}{6a_0-4(a_5-8a_6+5a_7)}$	$\frac{2}{3(a_0+2a_5-6a_7)}-\frac{1}{6a_0-4(a_5-8a_6+5a_7)}$	$-\frac{1}{\sqrt{2}(3a_0-2(a_5-8a_6+5a_7))}$	0	0	0
$\Delta^{\#3}_{0^+}{}^\dagger$	0	$\frac{2}{3(a_0+2a_5-6a_7)}-\frac{1}{6a_0-4(a_5-8a_6+5a_7)}$	$-\frac{2}{3(a_0+2a_5-6a_7)}-\frac{1}{6a_0-4(a_5-8a_6+5a_7)}$	$-\frac{1}{\sqrt{2}(3a_0-2(a_5-8a_6+5a_7))}$	0	0	0
$\Delta^{\#4}_{0^+}{}^\dagger$	0	$-\frac{1}{\sqrt{2}(3a_0-2(a_5-8a_6+5a_7))}$	$-\frac{1}{\sqrt{2}(3a_0-2(a_5-8a_6+5a_7))}$	$\frac{1}{-3a_0+2(a_5-8a_6+5a_7)}$	0	0	0
$\mathcal{T}^{\#1}_{0^+}{}^\dagger$	0	0	0	0	$\frac{4}{a_0k^2}$	0	0
$\mathcal{T}^{\#2}_{0^+}{}^\dagger$	0	0	0	0	0	0	0
$\Delta^{\#1}_{0^-}{}^\dagger$	0	0	0	0	0	0	$-\frac{2}{a_0+4a_1-4a_2}$

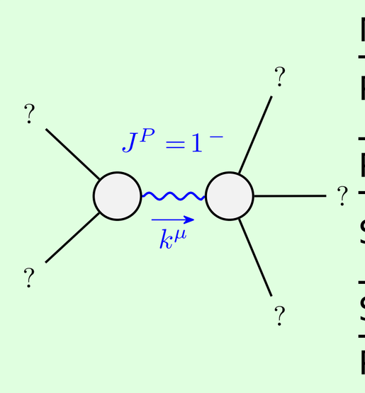
	$\Delta^{\#1}_{2^+\alpha\beta}$	$\Delta^{\#2}_{2^+\alpha\beta}$	$\Delta^{\#3}_{2^+\alpha\beta}$	$\mathcal{T}^{\#1}_{2^+\alpha\beta}$	$\Delta^{\#1}_{2^-\alpha\beta\chi}$	$\Delta^{\#2}_{2^-\alpha\beta\chi}$
$\Delta^{\#1}_{2^+}{}^\dagger{}^{\alpha\beta}$	$\frac{4(2a_1+a_2-2a_5-6a_7+2a_9)}{2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9)}$	0	$-\frac{4(2a_1+a_2+a_9)}{\sqrt{3}(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	0	0	0
$\Delta^{\#2}_{2^+}{}^\dagger{}^{\alpha\beta}$	0	$-\frac{4}{3(a_0+2a_5-6a_7)}$	0	0	0	0
$\Delta^{\#3}_{2^+}{}^\dagger{}^{\alpha\beta}$	$-\frac{4(2a_1+a_2+a_9)}{\sqrt{3}(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	0	$-\frac{4(a_0-2a_1-a_2)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	0	0	0
$\mathcal{T}^{\#1}_{2^+}{}^\dagger{}^{\alpha\beta}$	0	0	0	$-\frac{8}{a_0k^2}$	0	0
$\Delta^{\#1}_{2^-}{}^\dagger{}^{\alpha\beta\chi}$	0	0	0	0	$\frac{4(2a_1+a_2-2a_5-6a_7+2a_9)}{2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9)}$	$-\frac{4(2a_1+a_2+a_9)}{\sqrt{3}(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$
$\Delta^{\#2}_{2^-}{}^\dagger{}^{\alpha\beta\chi}$	0	0	0	0	$-\frac{4(2a_1+a_2+a_9)}{\sqrt{3}(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	$-\frac{4(a_0-2a_1-a_2)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$

Source constraints

SO(3) irreps	#
$\mathcal{T}^{\#2}_{0^+}==0$	1
$\Delta^{\#3}_{0^+}+3\Delta^{\#2}_{0^+}==2\Delta^{\#4}_{0^+}$	1
$\Delta^{\#1}_{0^+}==0$	1
$\mathcal{T}^{\#1}_{1^-}{}^{\alpha}==0$	3
$2(\Delta^{\#6}_{1^-}{}^{\alpha}+\Delta^{\#5}_{1^-}{}^{\alpha})==\Delta^{\#4}_{1^-}{}^{\alpha}+\Delta^{\#3}_{1^-}{}^{\alpha}$	3
$\Delta^{\#1}_{1^-}{}^{\alpha}==\Delta^{\#2}_{1^-}{}^{\alpha}$	3
Total #:	12

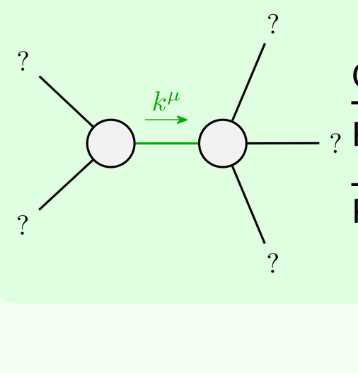
	$\Gamma^{\#1}_{3^-\alpha\beta\chi}$
$\Gamma^{\#1}_{3^-}{}^\dagger{}^{\alpha\beta\chi}$	$-\frac{3}{4}(a_0+2a_5-6a_7)$

	$\Delta^{\#1}_{3^-\alpha\beta\chi}$
$\Delta^{\#1}_{3^-}{}^\dagger{}^{\alpha\beta\chi}$	$-\frac{4}{3(a_0+2a_5-6a_7)}$



Massive particle

Pole residue:	$\frac{1}{4c_{13}}>0$
Polarisations:	3
Square mass:	$\frac{-3a_0+2(a_5-8a_6+5a_7)}{8c_{13}}>0$
Spin:	1
Parity:	Odd



Quadratic pole

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

Unitarity conditions

$a_0<0$ && $a_7>\frac{1}{10}(3a_0-2a_5+16a_6)$ && $c_{13}>0$