		$\Delta_{1^{+}\alpha\beta}^{\#1}$	$\Delta^{\#2}_{1}^{+}{}_{lphaeta}$	$\Delta^{\#3}_{1^+lphaeta}$	$\Delta_{1-\alpha}^{\#1}$	$\Delta_{1^{-}}^{\#2}{}_{lpha}$	$\Delta_{1}^{\#3}{}_{lpha}$	$\Delta_{1^{-}\alpha}^{\#4}$	$\Delta_{1^{-} \ lpha}^{\#5}$	$\Delta_{1}^{\#6}{}_{lpha}$	${\mathcal T}_{1-lpha}^{\sharp 1}$
$\Delta_1^{\it t}$	$f_{L}^{*1}$ † $f_{L}^{\alpha\beta}$	$\frac{4}{3} \left( -\frac{1}{a_0 + 4a_1 - 4a_2} + (a_0 - 4a_1 - 2a_2 - 3a_3 + 16a_6 - 4a_7 - 2a_9) / (a_0^2 + (2a_1 + a_2)(2a_1 + a_2 + 3a_3 - 16a_6 + 4a_7) - a_9^2 - a_0 (6a_1 + 3a_2 + 3a_3 - 16a_6 + 4a_7 + 2a_9)) \right)$	$\frac{2}{3}\sqrt{2}\left(-\frac{1}{a_0+4a_1-4a_2}+(-2a_0+8a_1+4a_2+6a_3-32a_6+8a_7+4a_9)\right)$ $(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-$ $a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9)))$	$\frac{4(2a_1+a_2+a_9)}{3(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))}$	0	0	0	-1 α	0	0	0
$\Delta_1^{\sharp}$	$\frac{2}{3}\sqrt{2}$	$ \frac{1}{a_0 + 4a_1 - 4a_2} + (-2a_0 + 8a_1 + 4a_2 + 6a_3 - 32a_6 + 8a_7 + 4a_9) / (a_0^2 + (2a_1 + a_2)(2a_1 + a_2 + 3a_3 - 16a_6 + 4a_7) - a_9^2 - a_0 (6a_1 + 3a_2 + 3a_3 - 16a_6 + 4a_7 + 2a_9))) $	$-\frac{2}{3(a_0+4a_1-4a_2)} + (8(a_0-4a_1-2a_2-3a_3+16a_6-4a_7-2a_9))/$ $(3(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-$ $a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9)))$	$-((4\sqrt{2}(2a_1 + a_2 + a_9)))/$ $(3(a_0^2 + (2a_1 + a_2)(2a_1 + a_2 + 3a_3 - 16a_6 + 4a_7) - a_9^2 -$ $a_0(6a_1 + 3a_2 + 3a_3 - 16a_6 + 4a_7 + 2a_9))))$	0	0	0	0	0	0	0
$\Delta_1^{\sharp}$	$\frac{^{*3}}{^{1+}}$ $\frac{^{\alpha\beta}}{^{3}(a_0)^{2}}$	$\frac{4(2a_1+a_2+a_9)}{9^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))}$	$-((4\sqrt{2}(2a_1+a_2+a_9)))/$ $(3(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-$ $a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))))$	$\frac{4(a_0-2a_1-a_2)}{3(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))}$	0	0	0	0	0	0	0
Δ	Δ <sub>1</sub> <sup>#-1</sup> † <sup>α</sup>	0	0	0	$\frac{4}{3} \left( -\frac{2}{2a_0 + 2a_1 + a_2 + 3a_3} + (a_0 - 4a_1 - 2a_2 - 3a_3 + 16a_6 - 4a_7 - 2a_9) \right) $ $(a_0^2 + (2a_1 + a_2)(2a_1 + a_2 + 3a_3 - 16a_6 + 4a_7) - $ $a_9^2 - a_0 (6a_1 + 3a_2 + 3a_3 - 16a_6 + 4a_7 + 2a_9)))$	$(4\sqrt{2}(3a_0^2 - 4a_1^2 - a_2^2 - 3a_3(3a_3 + 4(-4a_6 + a_7)) - 6a_3a_9 - a_9^2 - 2a_2(3a_3 + a_9) - 4a_1(a_2 + 3a_3 + a_9) - 6a_0(2a_1 + a_2 + a_3 - 8a_6 + 2a_7 + a_9)))/$ $(3(2a_0 + 2a_1 + a_2 + 3a_3)$ $(a_0^2 + (2a_1 + a_2)(2a_1 + a_2 + 3a_3 - 16a_6 + 4a_7) - a_9^2 - a_0(6a_1 + 3a_2 + 3a_3 - 16a_6 + 4a_7 + 2a_9)))$	0	0	$4\sqrt{\frac{2}{3}}(2a_1+a_2+a_9)$ $3(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))$	$-((4(2a_1+a_2+a_9))/$ $(3\sqrt{3}(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-$ $a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))))$	0
Δ	Δ <sub>1</sub> <sup>#2</sup> † <sup>α</sup>	0	0	0	$(4\sqrt{2}(3a_0^2-4a_1^2-a_2^2-3a_3(3a_3+4(-4a_6+a_7))-6a_3a_9-a_9^2-2a_2(3a_3+a_9)-4a_1(a_2+3a_3+a_9)-6a_0(2a_1+a_2+a_3-8a_6+2a_7+a_9)))/$ $(3(2a_0+2a_1+a_2+3a_3)$ $(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9)))$	$-\frac{4}{3(2a_0+2a_1+a_2+3a_3)} + (8(a_0-4a_1-2a_2-3a_3+16a_6-4a_7-2a_9)) a_0$ $(3(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9)))$	0	0	$(8(2a_1 + a_2 + a_9))/$ $(3\sqrt{3}(a_0^2 + (2a_1 + a_2)(2a_1 + a_2 + 3a_3 - 16a_6 + 4a_7) - a_9^2 - a_0(6a_1 + 3a_2 + 3a_3 - 16a_6 + 4a_7 + 2a_9)))$	$-((4\sqrt{\frac{2}{3}}(2a_1+a_2+a_9)))/$ $(3(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))))$	0
Δ	$\Delta_{1}^{#3} + \alpha$	0	0	0	0	0	$-\frac{5}{18(a_0+4a_6-4a_7)}$	$\frac{\sqrt{5}}{18(a_0 + 4a_6 - 4a_7)}$	0	0	0
Δ	$\lambda_{1}^{\#4} + \alpha$	0	0	0	0	0	$\frac{\sqrt{5}}{18(a_0 + 4a_6 - 4a_7)}$	$\frac{1}{-18(a_0+4a_6)+72a_7}$	0	0	0
Δ	Δ <sub>1</sub> <sup>±5</sup> † <sup>α</sup>	0	0	0	$\frac{4\sqrt{\frac{2}{3}}(2a_1+a_2+a_9)}{3(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))}$	$(8(2a_1 + a_2 + a_9))/$ $(3\sqrt{3}(a_0^2 + (2a_1 + a_2)(2a_1 + a_2 + 3a_3 - 16a_6 + 4a_7) - a_9^2 - a_0(6a_1 + 3a_2 + 3a_3 - 16a_6 + 4a_7 + 2a_9)))$	0	0	$\frac{8(a_0-2a_1-a_2)}{9(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))}$	$\frac{4\sqrt{2}(-a_0+2a_1+a_2)}{9(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))}$	0
Δ	Δ <sub>1</sub> <sup>#6</sup> † <sup>α</sup>	0	0	0	$-((4(2a_1 + a_2 + a_9)))/$ $(3\sqrt{3}(a_0^2 + (2a_1 + a_2)(2a_1 + a_2 + 3a_3 - 16a_6 + 4a_7) -$ $a_9^2 - a_0(6a_1 + 3a_2 + 3a_3 - 16a_6 + 4a_7 + 2a_9))))$	$-((4\sqrt{\frac{2}{3}}(2a_1+a_2+a_9)))/$ $(3(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))))$	0	0	$\frac{4\sqrt{2}(-a_0+2a_1+a_2)}{9(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))}$	$\frac{4 (a_0 - 2 a_1 - a_2)}{9 (a_0^2 + (2 a_1 + a_2) (2 a_1 + a_2 + 3 a_3 - 16 a_6 + 4 a_7) - a_9^2 - a_0 (6 a_1 + 3 a_2 + 3 a_3 - 16 a_6 + 4 a_7 + 2 a_9))}$	0
$\mathcal T$	$\frac{-\#1}{1} + \alpha$	0	0	0	0	0	0	0	0	0	0

	$\Gamma_{1}^{\#1}{}_{\alpha\beta}$	$\Gamma^{\#2}_{1}{}^{+}_{lphaeta}$	$\Gamma_{1}^{\#3}{}_{\alpha\beta}$	$\Gamma_{1}^{\#1}{}_{\alpha}$	$\Gamma_{1}^{\#2}{}_{\alpha}$	Γ <sub>1</sub> <sup>#3</sup> α	$\Gamma_{1}^{\#4}{}_{\alpha}$	$\Gamma_{1}^{\#5}{}_{\alpha}$	$\Gamma_1^{\#6}{}_{lpha}$	$h_{1}^{\#1}\alpha$
$\Gamma_{1}^{#1} + \alpha$	$\frac{1}{4} \left( -a_0 - 6 a_1 + 5 a_1 \right)$	$(a_2) - \frac{a_0 + 2a_1 - 3a_2}{2\sqrt{2}}$	$\frac{1}{4} \left( -2 a_1 - a_2 - a_9 \right)$	0	0	0	0	0	0	0
$\Gamma_{1}^{#2} + \alpha$	$-\frac{a_0 + 2a_1 - 3a_2}{2\sqrt{2}}$	$\frac{1}{2} \left( -2  a_1 + a_2 \right)$	$\frac{2a_1+a_2+a_9}{2\sqrt{2}}$	0	0	0	0	0	0	0
$\Gamma_{1}^{#3} + \alpha$	$\frac{1}{4} \left( -2 a_1 - a_2 - a_5 \right)$	$\frac{2a_1 + a_2 + a_9}{2\sqrt{2}}$	$\frac{3}{4}$ (a <sub>0</sub> - 4 a <sub>1</sub> - 2 a <sub>2</sub> - 3 a <sub>3</sub> + 16 a <sub>6</sub> - 4 a <sub>7</sub> - 2 a <sub>9</sub> )	0	0	0	0	0	0	0
Γ <sub>1</sub> -1 †	α 0	0	0	$\frac{1}{4}$ (- $a_0$ - 2 $a_1$ - $a_2$ - 2 $a_3$ )	$\frac{a_0 + a_3}{2\sqrt{2}}$	0	0	$-\frac{2a_1+a_2+a_9}{2\sqrt{6}}$	$\frac{2a_1 + a_2 + a_9}{4\sqrt{3}}$	0
Γ <sub>1</sub> <sup>#2</sup> †	α 0	0	0	$\frac{a_0 + a_3}{2\sqrt{2}}$	$\frac{1}{4}$ (-2 $a_1$ - $a_2$ - $a_3$ )	0	0	$-\frac{2a_1+a_2+a_9}{2\sqrt{3}}$	$\frac{2 a_1 + a_2 + a_9}{2 \sqrt{6}}$	0
Γ <sub>1</sub> -3 †	α 0	0	0	0	0	$-\frac{5}{2}(a_0+4a_6-4a_7)$	$\frac{1}{2} \sqrt{5} (a_0 + 4 a_6 - 4 a_7)$	0	0	0
Γ <sub>1</sub> -4 †	α 0	0	0	0	0	$\frac{1}{2} \sqrt{5} (a_0 + 4 a_6 - 4 a_7)$	$-\frac{a_0}{2}$ - 2 $a_6$ + 2 $a_7$	0	0	0
Γ <sub>1</sub> .5 †	α 0	0	0	$-\frac{2a_1+a_2+a_9}{2\sqrt{6}}$	$-\frac{2a_1+a_2+a_9}{2\sqrt{3}}$	0	0	$\frac{1}{2} (a_0 - 4 a_1 - 2 a_2 - 3 a_3 + 16 a_6 - 4 a_7 - 2 a_9)$	$\frac{-a_0+4a_1+2a_2+3a_3-16a_6+4a_7+2a_9}{2\sqrt{2}}$	0
Γ <sub>1</sub> -6 †	α 0	0	0	$\frac{2a_1 + a_2 + a_9}{4\sqrt{3}}$	$\frac{2a_1+a_2+a_9}{2\sqrt{6}}$	0	0	$\frac{-a_0+4a_1+2a_2+3a_3-16a_6+4a_7+2a_9}{2\sqrt{2}}$	$\frac{1}{4} (a_0 - 4a_1 - 2a_2 - 3a_3 + 16a_6 - 4a_7 - 2a_9)$	0
h <sub>1</sub> <sup>#</sup> -1 †	α 0	0	0	0	0	0	0	0	0	0

	$\Delta_{0}^{\#1}$	$\Delta_0^{\#2}$	$\Delta_{0}^{\#3}$	$\Delta_0^{\#4}$	$\mathcal{T}_{0}^{\#1}$	$\mathcal{T}_{0}^{\#2}$	$\Delta_0^{\#1}$
$\Delta_{0}^{\#1}$ †	$-\frac{4}{2a_0+2a_1+a_2+3a_3}$	0	0	0	0	0	0
$\Delta_{0}^{\#2}$ †	0	$\frac{1}{-6(a_0+4a_6)+24a_7}$	$\frac{1}{6(a_0+4a_6-4a_7)}$	0	0	0	0
$\Delta_{0}^{#3}$ †	0	$\frac{1}{6a_0 + 24a_6 - 24a_7}$	$\frac{1}{-6(a_0+4a_6)+24a_7}$	0	0	0	0
$\Delta_{0}^{\#4}$ †	0	0	0	0	0	0	0
$\mathcal{T}_{0}^{\#1}$ †	0	0	0	0	$\frac{4}{a_0 k^2}$	0	0
$\mathcal{T}_{0}^{\#2}$ †	0	0	0	0	0	0	0
$\Delta_{0}^{\#1}$ †	0	0	0	0	0	0	$-\frac{2}{a_0+4(a_1-a_2+3c_1)^2}$

Lagi	angia	in de	HSILY
$\frac{2}{3}a_1$	$\Gamma_{\alpha X}^{X}$	$\Gamma^{\alpha\beta}_{\beta}$	$+\frac{1}{3}a$
1		C	1

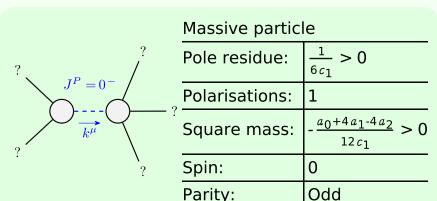
Eagrangian density  $\frac{2}{3}a_1 \Gamma_{\alpha \ X}^{\ X} \Gamma^{\alpha\beta}_{\ \beta} + \frac{1}{3}a_2 \Gamma_{\alpha \ X}^{\ X} \Gamma^{\alpha\beta}_{\ \beta} + \frac{1}{2}a_3 \Gamma_{\alpha \ X}^{\ X} \Gamma^{\alpha\beta}_{\ \beta} - 2a_6 \Gamma_{\alpha \ X}^{\ X} \Gamma^{\alpha\beta}_{\ \beta} + \frac{1}{3}a_9 \Gamma_{\alpha \ X}^{\ X} \Gamma^{\alpha\beta}_{\ \beta} - \frac{1}{4}a_0 \Gamma_{\alpha\beta\chi} \Gamma^{\alpha\beta\chi}_{\ \beta} - \frac{3}{2}a_1 \Gamma_{\alpha\beta\chi} \Gamma^{\alpha\beta\chi}_{\ \alpha\beta\chi} - \frac{1}{4}a_2 \Gamma_{\alpha\beta\chi} \Gamma^{\alpha\beta\chi}_{\ \beta} - \frac{3}{4}a_3 \Gamma_{\alpha\beta\chi} \Gamma^{\alpha\beta\chi}_{\ \beta} + 2a_6 \Gamma_{\alpha\beta\chi} \Gamma^{\alpha\beta\chi}_{\ \alpha\beta\chi} + a_7 \Gamma_{\alpha\beta\chi} \Gamma^{\alpha\beta\chi}_{\ \alpha\beta\chi} - \frac{1}{2}a_9 \Gamma_{\alpha\beta\chi} \Gamma^{\alpha\beta\chi}_{\ \alpha\beta\chi} - \frac{1}{2}a_9 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi}_{\ \alpha\chi\beta} + 2a_6 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi}_{\ \alpha\chi\beta} \Gamma^{\alpha\beta\chi}_{\ \alpha\chi\beta} - \frac{3}{4}a_2 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi}_{\ \alpha\chi\beta} \Gamma^{\alpha\beta\chi}_{\ \alpha\chi\beta} - \frac{3}{4}a_3 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi}_{\ \beta\alpha\chi} + 2a_6 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi}_{\ \alpha\chi\beta} \Gamma^{\alpha\beta\chi}_{\ \alpha\chi\beta} - \frac{1}{2}a_9 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi}_{\ \alpha\chi\beta} - \frac{3}{4}a_3 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi}_{\ \beta\alpha\chi} + 2a_6 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi}_{\ \alpha\chi\beta} \Gamma^{\alpha\beta\chi}_{\ \alpha\chi\beta} - \frac{1}{2}a_9 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi}_{\ \alpha\chi\beta} - \frac{3}{4}a_3 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi}_{\ \beta\alpha\chi} + 2a_6 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi}_{\ \alpha\chi\beta} - \frac{3}{4}a_3 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi}_{\ \alpha\chi\beta} - \frac{3}{4}a_3 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi}_{\ \alpha\chi\beta} - \frac{3}{4}a_3 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi}_{\ \alpha\chi\beta} + 2a_6 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi}_{\ \alpha\chi\beta} - \frac{3}{4}a_3 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\gamma\beta}_{\ \alpha\chi\beta} - \frac{3}{4}a_3 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi}_{\ \alpha\chi\beta} - \frac{3}{4}a_3 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\gamma\beta}_{\ \alpha\chi\beta} - \frac{3}{4}a_3 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\gamma\beta}_{\ \alpha\gamma\beta} - \frac{3}{4}a_3 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\gamma\beta}_{\ \alpha\gamma\beta} - \frac{3}{4}a_3 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\gamma\beta}_{\$  $\frac{1}{4} a_1 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\alpha\chi} - \frac{3}{8} a_2 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\alpha\chi} + \frac{3}{8} a_3 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\alpha\chi} - 4 a_6 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\alpha\chi} +$  $\frac{5}{2} a_7 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\alpha\chi} - \frac{3}{2} a_0 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\chi\alpha} + \frac{1}{2} a_1 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\chi\alpha} + \frac{5}{4} a_2 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\chi\alpha} +$  $\frac{3}{4} a_3 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\chi\alpha} - 8 a_6 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\chi\alpha} + 5 a_7 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\chi\alpha} + \frac{1}{2} a_9 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\chi\alpha} +$  $\frac{1}{2} a_0 \Gamma_{\alpha}^{\alpha\beta} \Gamma_{\beta\chi}^{\chi} - a_1 \Gamma_{\alpha}^{\alpha\beta} \Gamma_{\beta\chi}^{\chi} - \frac{1}{2} a_2 \Gamma_{\alpha}^{\alpha\beta} \Gamma_{\beta\chi}^{\chi} - \frac{1}{2} a_3 \Gamma_{\alpha}^{\alpha\beta} \Gamma_{\beta\chi}^{\chi} +$  $4 a_6 \Gamma_{\alpha}^{\alpha\beta} \Gamma_{\beta\chi}^{\chi} - 2 a_7 \Gamma_{\alpha}^{\alpha\beta} \Gamma_{\beta\chi}^{\chi} - \frac{1}{2} a_9 \Gamma_{\alpha}^{\alpha\beta} \Gamma_{\beta\chi}^{\chi} + \frac{1}{2} a_0 \Gamma_{\alpha}^{\alpha\beta} \Gamma_{\beta\chi}^{\chi} - \frac{1}{2} a_{11} \Gamma_{\alpha}^{\chi} \Gamma_{\alpha}^{\chi} - \frac{1}{2} a_{12} \Gamma_{\alpha}^{\chi} - \frac{1}{2} a_{12} \Gamma_{\alpha}^{\chi} - \frac{1}{2} \alpha_{12} \Gamma$  $\frac{1}{3} a_1 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\chi}_{\beta \chi} - \frac{1}{6} a_2 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\chi}_{\beta \chi} - \frac{1}{2} a_3 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\chi}_{\beta \chi} + 4 a_6 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\chi}_{\beta \chi} 2\,a_7\,\,\Gamma^{\alpha\beta}_{\quad \alpha}\,\,\Gamma^{\,\,\chi}_{\beta\,\,\chi} - \tfrac{1}{6}\,a_9\,\,\Gamma^{\alpha\beta}_{\quad \alpha}\,\,\Gamma^{\,\,\chi}_{\beta\,\,\chi} - \tfrac{1}{2}\,a_0\,\,\Gamma^{\alpha\beta\chi}\,\,\Gamma_{\chi\beta\alpha} + \tfrac{5}{4}\,a_1\,\,\Gamma^{\alpha\beta\chi}\,\,\Gamma_{\chi\beta\alpha} +$  $\frac{1}{8} a_2 \Gamma^{\alpha\beta\chi} \Gamma_{\chi\beta\alpha} + \frac{3}{8} a_3 \Gamma^{\alpha\beta\chi} \Gamma_{\chi\beta\alpha} - 4 a_6 \Gamma^{\alpha\beta\chi} \Gamma_{\chi\beta\alpha} + \frac{5}{2} a_7 \Gamma^{\alpha\beta\chi} \Gamma_{\chi\beta\alpha} +$  $\frac{1}{2} a_9 \Gamma^{\alpha\beta\chi} \Gamma_{\chi\beta\alpha} + \frac{1}{2} a_0 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\chi}_{\beta\chi} + \frac{1}{3} a_1 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\chi}_{\beta\chi} + \frac{1}{6} a_2 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\chi}_{\beta\chi} +$  $\frac{1}{2} a_3 \Gamma^{\alpha}_{\alpha}{}^{\beta} \Gamma^{\chi}_{\beta\chi} - a_7 \Gamma^{\alpha}_{\alpha}{}^{\beta} \Gamma^{\chi}_{\beta\chi} + \frac{1}{6} a_9 \Gamma^{\alpha}_{\alpha}{}^{\beta} \Gamma^{\chi}_{\beta\chi} - \frac{1}{2} a_7 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\chi}_{\beta\chi} +$  $\frac{1}{3} a_1 \Gamma^{\alpha \beta}_{\alpha} \Gamma^{\chi}_{\chi\beta} + \frac{1}{6} a_2 \Gamma^{\alpha \beta}_{\alpha} \Gamma^{\chi}_{\chi\beta} - \frac{1}{2} a_7 \Gamma^{\alpha \beta}_{\alpha} \Gamma^{\chi}_{\chi\beta} + \frac{1}{6} a_9 \Gamma^{\alpha \beta}_{\alpha} \Gamma^{\chi}_{\chi\beta} \frac{1}{2} a_0 \Gamma^{\alpha\beta\chi} \partial_{\beta} h_{\alpha\chi} - \frac{1}{4} a_0 \Gamma^{\alpha}_{\alpha}{}^{\beta} \partial_{\beta} h^{\chi}_{\chi} + \frac{1}{4} a_0 \Gamma^{\alpha\beta}_{\alpha} \partial_{\beta} h^{\chi}_{\chi} - \frac{1}{4} a_0 h^{\chi}_{\chi} \partial_{\beta} \Gamma^{\alpha}_{\alpha}{}^{\beta} +$  $\frac{1}{4} a_0 h_{\chi}^{\chi} \partial_{\beta} \Gamma^{\alpha\beta}{}_{\alpha} - \frac{1}{2} a_0 h_{\alpha\chi} \partial_{\beta} \Gamma^{\alpha\beta\chi} + \frac{1}{4} a_0 h^{\alpha\beta} \partial_{\beta} \partial_{\alpha} h_{\chi}^{\chi} - \frac{1}{8} a_0 \partial_{\beta} h_{\chi}^{\chi} \partial^{\beta} h_{\alpha}^{\alpha} +$  $\frac{1}{2} a_0 \Gamma^{\alpha}_{\alpha}^{\beta} \partial_{\chi} h_{\beta}^{\chi} + \frac{1}{4} a_0 \partial^{\beta} h^{\alpha}_{\alpha} \partial_{\chi} h_{\beta}^{\chi} - \frac{1}{2} a_0 h^{\alpha\beta} \partial_{\chi} \partial_{\beta} h_{\alpha}^{\chi} + \frac{1}{4} a_0 h^{\alpha}_{\alpha} \partial_{\chi} \partial_{\beta} h^{\beta\chi} +$  $\frac{1}{4} a_0 h^{\alpha\beta} \partial_{\chi} \partial^{\chi} h_{\alpha\beta} - \frac{1}{4} a_0 h^{\alpha}_{\alpha} \partial_{\chi} \partial^{\chi} h^{\beta}_{\beta} - \frac{1}{4} a_0 \partial_{\beta} h_{\alpha\chi} \partial^{\chi} h^{\alpha\beta} +$  $\frac{1}{8} a_0 \partial_{\chi} h_{\alpha\beta} \partial^{\chi} h^{\alpha\beta} + \frac{1}{2} a_0 h_{\beta\chi} \partial^{\chi} \Gamma^{\alpha}_{\alpha}{}^{\beta} + 2 c_1 \partial_{\alpha} \Gamma_{\beta\chi\mu} \partial^{\mu} \Gamma^{\alpha\beta\chi} 2c_1\partial_{\alpha}\Gamma_{\beta\mu\chi}\partial^{\mu}\Gamma^{\alpha\beta\chi} - 2c_1\partial_{\alpha}\Gamma_{\chi\beta\mu}\partial^{\mu}\Gamma^{\alpha\beta\chi} + 2c_1\partial_{\alpha}\Gamma_{\chi\mu\beta}\partial^{\mu}\Gamma^{\alpha\beta\chi} +$  $c_1 \, \partial_\alpha \Gamma_{\mu\beta\chi} \partial^\mu \Gamma^{\alpha\beta\chi} - c_1 \, \partial_\alpha \Gamma_{\mu\chi\beta} \partial^\mu \Gamma^{\alpha\beta\chi} - 2 \, c_1 \, \partial_\beta \Gamma_{\alpha\chi\mu} \partial^\mu \Gamma^{\alpha\beta\chi} +$  $c_1 \, \partial_\beta \Gamma_{\alpha\mu\chi} \, \partial^\mu \Gamma^{\alpha\beta\chi} - c_1 \, \partial_\beta \Gamma_{\chi\mu\alpha} \, \partial^\mu \Gamma^{\alpha\beta\chi} + c_1 \, \partial_\chi \Gamma_{\alpha\beta\mu} \, \partial^\mu \Gamma^{\alpha\beta\chi}$  $c_1 \, \partial_\chi \Gamma_{\beta\alpha\mu} \, \partial^\mu \Gamma^{\alpha\beta\chi} + 2 \, c_1 \, \partial_\chi \Gamma_{\beta\mu\alpha} \, \partial^\mu \Gamma^{\alpha\beta\chi} - c_1 \, \partial_\mu \Gamma_{\alpha\beta\chi} \, \partial^\mu \Gamma^{\alpha\beta\chi} +$  $c_1 \, \partial_\mu \Gamma_{\alpha\chi\beta} \, \partial^\mu \Gamma^{\alpha\beta\chi} + c_1 \, \partial_\mu \Gamma_{\beta\alpha\chi} \, \partial^\mu \Gamma^{\alpha\beta\chi} - 2 \, c_1 \, \partial_\mu \Gamma_{\beta\chi\alpha} \, \partial^\mu \Gamma^{\alpha\beta\chi} +$  $c_1 \, \partial_\mu \Gamma_{\chi\beta\alpha} \partial^\mu \Gamma^{\alpha\beta\chi} + c_1 \, \partial_\chi \partial_\beta h_{\alpha\mu} \, \partial^\mu \partial^\chi h^{\alpha\beta} - c_1 \, \partial_\mu \partial_\beta h_{\alpha\chi} \, \partial^\mu \partial^\chi h^{\alpha\beta}$ Added source term:  $h^{\alpha\beta} \mathcal{T}_{\alpha\beta} + \Gamma^{\alpha\beta\chi} \Delta_{\alpha\beta\chi}$ 

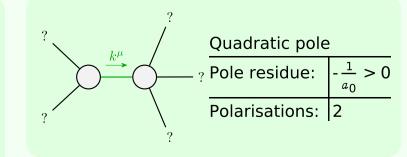
	$\Delta_{2}^{\#1}{}_{\alpha\beta}$	$\Delta_{2}^{\#2}{}_{lphaeta}$	$\Delta^{\#3}_{2^+lphaeta}$	${\mathcal T}_{2}^{\#1}{}_{lphaeta}$	$\Delta_{2}^{\#1}{}_{lphaeta\chi}$	$\Delta_{2^{-} \alpha \beta \chi}^{\# 2}$
$\Delta_{2}^{#1} \dagger^{a}$	$\beta = \frac{4(a_0-4a_1-2a_2-3a_3+16a_6-4a_7-2a_9)}{a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9)}$	0	$\frac{4 \left(2  a_{1} + a_{2} + a_{9}\right)}{\sqrt{3}  \left(a_{0}^{2} + \left(2  a_{1} + a_{2}\right) \left(2  a_{1} + a_{2} + 3  a_{3} - 16  a_{6} + 4  a_{7}\right) - a_{9}^{2} - a_{0} \left(6  a_{1} + 3  a_{2} + 3  a_{3} - 16  a_{6} + 4  a_{7} + 2  a_{9}\right)\right)}$	0	0	0
$\Delta_{2}^{#2} + \alpha_{3}^{*}$	0	$\frac{1}{-3(a_0+4a_6)+12a_7}$	0	0	0	0
$\Delta_{2}^{#3} \dagger^{a}$	$\beta \frac{4(2a_1+a_2+a_9)}{\sqrt{3}(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))}$	0	$\frac{4 \left(a_{0} - 2  a_{1} - a_{2}\right)}{3 \left(a_{0}^{2} + \left(2  a_{1} + a_{2}\right) \left(2  a_{1} + a_{2} + 3  a_{3} - 16  a_{6} + 4  a_{7}\right) - a_{9}^{2} - a_{0} \left(6  a_{1} + 3  a_{2} + 3  a_{3} - 16  a_{6} + 4  a_{7} + 2  a_{9}\right)\right)}$	0	0	0
$\mathcal{T}_{2}^{#1} \dagger^{\alpha}$	0	0	0	$-\frac{8}{a_0 k^2}$	0	0
$\Delta_2^{\#1} \dagger^{\alpha\beta}$	0	0	0	0	$\frac{4 (a_0 - 4 a_1 - 2 a_2 - 3 a_3 + 16 a_6 - 4 a_7 - 2 a_9)}{{a_0}^2 + (2 a_1 + a_2) (2 a_1 + a_2 + 3 a_3 - 16 a_6 + 4 a_7) - a_9}^2 - a_0 (6 a_1 + 3 a_2 + 3 a_3 - 16 a_6 + 4 a_7 + 2 a_9)}$	$\frac{4 \left(2  a_{1} + a_{2} + a_{9}\right)}{\sqrt{3}  \left(a_{0}^{2} + \left(2  a_{1} + a_{2}\right) \left(2  a_{1} + a_{2} + 3  a_{3} - 16  a_{6} + 4  a_{7}\right) - a_{9}^{2} - a_{0} \left(6  a_{1} + 3  a_{2} + 3  a_{3} - 16  a_{6} + 4  a_{7} + 2  a_{9}\right)\right)}$
$\Delta_2^{\#2} \dagger^{\alpha\beta}$	0	0	0	0	$\frac{4(2a_1+a_2+a_9)}{\sqrt{3}(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))}$	$\frac{4 \left(a_{0}-2  a_{1}-a_{2}\right)}{3 \left(a_{0}^{2}+\left(2  a_{1}+a_{2}\right) \left(2  a_{1}+a_{2}+3  a_{3}-16  a_{6}+4  a_{7}\right)-a_{9}^{2}-a_{0} \left(6  a_{1}+3  a_{2}+3  a_{3}-16  a_{6}+4  a_{7}+2  a_{9}\right)\right)}$

	$\Gamma_{2}^{\#1}{}_{lphaeta}$	$\Gamma^{\#2}_{2^+lphaeta}$	Γ <sub>2</sub> <sup>#3</sup> <sub>αβ</sub>	$h_{2}^{\#1}_{lphaeta}$	$\Gamma_{2}^{\#1}_{\alpha\beta\chi}$	Γ <sup>#2</sup> <sub>2</sub> αβχ
$\Gamma_2^{\#1} \dagger^{\alpha\beta}$	$\frac{1}{4}(a_0 - 2a_1 - a_2)$	0	$-\frac{1}{4} \sqrt{3} (2 a_1 + a_2 + a_9)$	0	0	0
$\Gamma_2^{\#2} \dagger^{\alpha\beta}$	0	$-3(a_0+4a_6-4a_7)$	0	0	0	0
$\Gamma_2^{#3} \dagger^{\alpha\beta}$	$-\frac{1}{4}\sqrt{3}(2a_1+a_2+a_9)$	0	$\frac{3}{4}$ ( $a_0$ - 4 $a_1$ - 2 $a_2$ - 3 $a_3$ + 16 $a_6$ - 4 $a_7$ - 2 $a_9$ )	0	0	0
$h_2^{#1} \dagger^{\alpha\beta}$	0	0	0	$-\frac{a_0 k^2}{8}$	0	0
$\Gamma_2^{\#1} \dagger^{\alpha\beta\chi}$	0	0	0	0	$\frac{1}{4} (a_0 - 2 a_1 - a_2)$	$-\frac{1}{4}\sqrt{3}(2a_1+a_2+a_9)$
$\Gamma_2^{\#2} + \alpha \beta \chi$	0	0	0	0	$-\frac{1}{4}\sqrt{3}(2a_1+a_2+a_9)$	$\frac{3}{4} (a_0 - 4a_1 - 2a_2 - 3a_3 + 16a_6 - 4a_7 - 2a_9)$

Γ<sub>0</sub><sup>#1</sup> †
Γ<sub>0</sub><sup>#2</sup> †
Γ<sub>0</sub><sup>#3</sup> †
Γ<sub>0</sub><sup>#4</sup> †
Γ<sub>0</sub><sup>#1</sup> †
Γ<sub>0</sub><sup>#1</sup> †
Γ<sub>0</sub><sup>#1</sup> †

#	+	$\alpha = 0$	$\Delta_{0+}^{#3} + 3 \Delta_{0+}^{#2}$	$\Delta_{0+}^{\#4} == 0$	$\mathcal{T}_{0+}^{\#2} == 0$	SO(3) irrep	Source cor	$\Gamma_{3}^{\#1}{}_{\alpha\beta\chi}^{\alpha\beta\chi}$ $\Gamma_{3}^{\#1}{}^{\dagger}{}^{\alpha\beta\chi}$ $-3(a_0 + 4a_6 - 4a_7)$
		2	== 0			ps	constraints	$\Delta_{3}^{\#1}{}_{lphaeta\chi}$
12	ω μ	υω	1	1	1	#	S	$\Delta_3^{\#1} + \alpha \beta \chi = \frac{1}{-3(a_0 + 4a_6) + 12a_7}$





Unitarity conditions  $a_0 < 0 \&\& a_2 > \frac{1}{4} (a_0 + 4 a_1) \&\& c_1 > 0$