Wave operator and propagator

	$\Delta_{1}^{\#1}_{+ \ lphaeta}$	$\Delta_{1}^{\#2}_{+ \ lphaeta}$	$\Delta^{\#3}_{1}{}^{+}_{lphaeta}$	$\Delta_{1-lpha}^{\#1}$	$\Delta_{1-lpha}^{\#2}$	$\Delta_{1}^{#3}{}_{\alpha}$	$\Delta_{1}^{\#4}{}_{\alpha}$	$\Delta_{1}^{\#5}{}_{lpha}$	$\Delta_{1}^{\#6}{}_{lpha}$
<i>α</i> β 3	$\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) \right) $ $(a_0^2 + (2a_1 + a_2) (2a_1 + a_2 + 3a_3 - 16a_6 + 4a_7) - $ $a_9^2 - a_0 (6a_1 + 3a_2 + 3a_3 - 16a_6 + 4a_7 + 2a_9)))$	$\frac{2}{3}\sqrt{2}\left(-\frac{1}{a_0+4a_1-4a_2}+(-2a_0+8a_1+4a_2+6a_3-32a_6+8a_7+4a_9)\right)$ $(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-$ $a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9)))$	$\frac{4(2a_1+a_2+a_9)}{3(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))}$	0	0	0	0	0	0
$\frac{2}{3}\sqrt{2}$	$ \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))) $		$-\frac{4\sqrt{2}(2a_1+a_2+a_9)}{3(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))}$	0	0	0	0	0	0
$\frac{\alpha\beta}{3(a_0^2)}$	$\frac{4(2a_1+a_2+a_9)}{9^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))}$	$-\frac{4\sqrt{2}(2a_1+a_2+a_9)}{3(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))}$	$\frac{4 \left(a_{0} - 2 a_{1} - a_{2}\right)}{3 \left(a_{0}^{2} + \left(2 a_{1} + a_{2}\right) \left(2 a_{1} + a_{2} + 3 a_{3} - 16 a_{6} + 4 a_{7}\right) - a_{9}^{2} - a_{0} \left(6 a_{1} + 3 a_{2} + 3 a_{3} - 16 a_{6} + 4 a_{7} + 2 a_{9}\right)\right)}$	0	0	0	0	0	0
α	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	$\frac{4\sqrt{\frac{2}{3}}\left(2a_{1}+a_{2}+a_{9}\right)}{3\left(a_{0}^{2}+\left(2a_{1}+a_{2}\right)\left(2a_{1}+a_{2}+3a_{3}-16a_{6}+4a_{7}\right)-a_{9}^{2}-a_{0}\left(6a_{1}+3a_{2}+3a_{3}-16a_{6}+4a_{7}+2a_{9}\right)\right)}$	$-((4(2a_1+a_2+a_9))/$ $(3\sqrt{3}(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-$ $a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9)))$
α	0	0	0	$(4\sqrt{2}(3a_0^2 - 4a_1^2 - a_2^2 - 3a_3(3a_3 + 4(-4a_6 + a_7)) - 6a_3a_9 - a_9^2 - 2a_2(3a_3 + a_9) - 4a_1(a_2 + 3a_3 + a_9) - 6a_0(2a_1 + a_2 + a_3 - 8a_6 + 2a_7 + a_9)))/$ $(3(2a_0 + 2a_1 + a_2 + 3a_3)$ $(a_0^2 + (2a_1 + a_2)(2a_1 + a_2 + 3a_3 - 16a_6 + 4a_7) - a_9^2 - a_0(6a_1 + 3a_2 + 3a_3 - 16a_6 + 4a_7 + 2a_9)))$	$-\frac{4}{3(2a_0+2a_1+a_2+3a_3)} + \frac{8(a_0-4a_1-2a_2-3a_3+16a_6-4a_7-2a_9)}{3(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9)}$	O	0	$\frac{8 (2 a_1 + a_2 + a_9)}{3 \sqrt{3} (a_0^2 + (2 a_1 + a_2) (2 a_1 + a_2 + 3 a_3 - 16 a_6 + 4 a_7) - a_9^2 - a_0 (6 a_1 + 3 a_2 + 3 a_3 - 16 a_6 + 4 a_7 + 2 a_9))}$	$-\frac{4\sqrt{\frac{2}{3}}(2a_1+a_2+a_9)}{3(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9)}$
α	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
α	0	0	0	0	0	√5	$\frac{1}{-18(a_0+4a_6)+72a_7}$	0	0
α	0	0	0	$\frac{4\sqrt{\frac{2}{3}}\left(2a_{1}+a_{2}+a_{9}\right)}{3\left(a_{0}^{2}+\left(2a_{1}+a_{2}\right)\left(2a_{1}+a_{2}+3a_{3}-16a_{6}+4a_{7}\right)-a_{9}^{2}-a_{0}\left(6a_{1}+3a_{2}+3a_{3}-16a_{6}+4a_{7}+2a_{9}\right)\right)}$	$\frac{8(2a_1+a_2+a_9)}{3\sqrt{3}(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9)}$	<u>)))</u> 0	0	$\frac{8(a_0-2a_1-a_2)}{9(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))}$	$\frac{4\sqrt{2}(-a_0+2a_1+a_2)}{9(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_1+a_2)}$
α	0	0	0	$-((4(2a_1 + a_2 + a_9))/$ $(3\sqrt{3}(a_0^2 + (2a_1 + a_2)(2a_1 + a_2 + 3a_3 - 16a_6 + 4a_7) -$ $a_9^2 - a_0(6a_1 + 3a_2 + 3a_3 - 16a_6 + 4a_7 + 2a_9))))$	$-\frac{4\sqrt{\frac{2}{3}}(2a_1+a_2+a_9)}{3(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))}$	0	0	$\frac{4\sqrt{2}\left(-a_{0}+2a_{1}+a_{2}\right)}{9\left(a_{0}^{2}+\left(2a_{1}+a_{2}\right)\left(2a_{1}+a_{2}+3a_{3}-16a_{6}+4a_{7}\right)-a_{9}^{2}-a_{0}\left(6a_{1}+3a_{2}+3a_{3}-16a_{6}+4a_{7}+2a_{9}\right)\right)}$	$\frac{4 \left(a_{0}-2 a_{1}-a_{2}\right)}{9 \left(a_{0}^{2}+\left(2 a_{1}+a_{2}\right) \left(2 a_{1}+a_{2}+3 a_{3}-16 a_{6}+4 a_{7}\right)-a_{9}^{2}-a_{0} \left(6 a_{1}+3 a_{2}+3 a_{3}-16 a_{6}+4 a_{7}+2 a_{1}+a_{2}\right)}$
α	0	0	0	0	0	0	0	0	0

	$\Gamma_{1}^{\#_{1}}\alpha\beta$	$\Gamma_{1}^{\#2}_{\alpha\beta}$	$\Gamma_{1}^{\#3}{}_{\alpha\beta}$	$\Gamma_{1}^{\#1}\alpha$	$\Gamma_{1}^{\#2}\alpha$	Γ ₁ - α	$\Gamma_{1}^{\#4}\alpha$	$\Gamma_{1}^{\#5}\alpha$	$\Gamma_{1}^{\#^{6}}$	$h_1^{\#}$
$\Gamma_{1}^{\#1}\dagger^{lphaeta}$	$\frac{1}{4} \left(-a_0 - 6 a_1 + 5 a_2 \right)$	$-\frac{a_0+2a_1-3a_2}{2\sqrt{2}}$	$\frac{1}{4} \left(-2 a_1 - a_2 - a_9 \right)$	0	0	0	0	0	0	
$\Gamma_{1}^{\#2} \dagger^{\alpha\beta}$	$-\frac{a_0+2a_1-3a_2}{2\sqrt{2}}$	$\frac{1}{2} \left(-2 a_1 + a_2 \right)$	$\frac{2 a_1 + a_2 + a_9}{2 \sqrt{2}}$	0	0	0	0	0	0	
$\Gamma_{1}^{#3} \dagger^{\alpha\beta}$	$\frac{1}{4}$ (-2 a_1 - a_2 - a_9)	$\frac{2a_1+a_2+a_9}{2\sqrt{2}}$	$\frac{3}{4} (a_0 - 4a_1 - 2a_2 - 3a_3 + 16a_6 - 4a_7 - 2a_9)$	0	0	0	0	0	0	
$\Gamma_1^{#1} \uparrow^{\alpha}$	0	0	0	$\frac{1}{4} (-a_0 - 2a_1 - a_2 - 2a_3)$	$\frac{a_0+a_3}{2\sqrt{2}}$	0	0	$-\frac{2a_1+a_2+a_9}{2\sqrt{6}}$	$\frac{2 a_1 + a_2 + a_9}{4 \sqrt{3}}$	
$\Gamma_1^{#2} \uparrow^{\alpha}$	0	0	0	$\frac{a_0 + a_3}{2\sqrt{2}}$	$\frac{1}{4} \left(-2 a_1 - a_2 - a_3 \right)$	0	0	$-\frac{2a_1+a_2+a_9}{2\sqrt{3}}$	$\frac{2 a_1 + a_2 + a_9}{2 \sqrt{6}}$	ļ
$\Gamma_{1}^{#3} \uparrow^{\alpha}$	0	0	0	0	0	$-\frac{5}{2}(a_0+4a_6-4a_7)$	$\frac{1}{2}\sqrt{5}(a_0+4a_6-4a_7)$	0	0	
$\Gamma_1^{\#4} \uparrow^{\alpha}$	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	
$\Gamma_1^{\#5} \uparrow^{\alpha}$	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	$\frac{1}{2} (a_0 - 4 a_1 - 2 a_2 - 3 a_3 + 16 a_6 - 4 a_7 - 2 a_9)$	$\frac{-a_0 + 4a_1 + 2a_2 + 3a_3 - 16a_6 + 4a_7 + 2a_9}{2\sqrt{2}}$	
$\Gamma_1^{\#6} \uparrow^{\alpha}$	0	0	0	$\frac{2 a_1 + a_2 + a_9}{4 \sqrt{3}}$	$\frac{2a_1 + a_2 + a_9}{2\sqrt{6}}$	0	0	$\frac{-a_0+4a_1+2a_2+3a_3-16a_6+4a_7+2a_9}{2\sqrt{2}}$	$\frac{1}{4} (a_0 - 4a_1 - 2a_2 - 3a_3 + 16a_6 - 4a_7 - 2a_9)$	ļ
$h_{1}^{\#1} \dagger^{\alpha}$	0	0	0	0	0	0	0	0	0	

	0
Quadratic (free) act	ion
$S == \iiint (\frac{1}{24} (4 (4 a_1 - 4 a_1 + 4 a_1 +$	$+2a_2+3a_3-12a_6+2a_9)\Gamma_{\alpha \ \chi}^{\ \chi}\Gamma_{\ \beta}^{\alpha\beta}$
	6 $(a_0 + 6a_1 + a_2 + 3a_3 - 8a_6 - 4a_7 + 2a_9) \Gamma_{\alpha\beta\chi} \Gamma^{\alpha\beta\chi}$
	$6 a_0 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi}$ - $12 a_1 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi}$ - $18 a_2 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi}$ -
	$18 a_3 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi} + 48 a_6 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi} +$
	$24 a_7 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi} - 12 a_9 \Gamma_{\alpha\chi\beta} \Gamma^{\alpha\beta\chi} - 12 a_0 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\alpha\chi} +$
	$6 a_1 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\alpha\chi} - 9 a_2 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\alpha\chi} + 9 a_3 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\alpha\chi} -$
	$96 a_6 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\alpha\chi} + 60 a_7 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\alpha\chi} - 36 a_0 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\chi\alpha} +$
	$12 a_1 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\chi\alpha} + 30 a_2 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\chi\alpha} + 18 a_3 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\chi\alpha}$
	$192 a_6 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\chi\alpha} + 120 a_7 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\chi\alpha} +$
	$12 a_9 \Gamma^{\alpha\beta\chi} \Gamma_{\beta\chi\alpha} + 12 a_0 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\chi}_{\beta\chi} - 24 a_1 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\chi}_{\beta\chi} -$
	$12 a_2 \Gamma_{\alpha}^{\alpha\beta} \Gamma_{\beta\chi}^{\chi} - 12 a_3 \Gamma_{\alpha}^{\alpha\beta} \Gamma_{\beta\chi}^{\chi} + 96 a_6 \Gamma_{\alpha}^{\alpha\beta} \Gamma_{\beta\chi}^{\chi} -$
	$48 a_7 \Gamma_{\alpha}^{\alpha\beta} \Gamma_{\beta\chi}^{\chi} - 12 a_9 \Gamma_{\alpha}^{\alpha\beta} \Gamma_{\beta\chi}^{\chi} + 12 a_0 \Gamma_{\alpha}^{\alpha\beta} \Gamma_{\beta\chi}^{\chi} -$
	$8 a_1 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\chi}_{\beta \chi} - 4 a_2 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\chi}_{\beta \chi} - 12 a_3 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\chi}_{\beta \chi} +$
	$96 a_6 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\chi}_{\beta \chi} - 48 a_7 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\chi}_{\beta \chi} - 4 a_9 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\chi}_{\beta \chi} -$
	$12 a_0 \Gamma^{\alpha\beta\chi} \Gamma_{\chi\beta\alpha} + 30 a_1 \Gamma^{\alpha\beta\chi} \Gamma_{\chi\beta\alpha} + 3 a_2 \Gamma^{\alpha\beta\chi} \Gamma_{\chi\beta\alpha} +$
	$9 a_3 \Gamma^{\alpha\beta\chi} \Gamma_{\chi\beta\alpha}$ $-96 a_6 \Gamma^{\alpha\beta\chi} \Gamma_{\chi\beta\alpha}$ $+60 a_7 \Gamma^{\alpha\beta\chi} \Gamma_{\chi\beta\alpha}$ $+$
	$12 a_9 \Gamma^{\alpha\beta\chi} \Gamma_{\chi\beta\alpha} + 12 a_0 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\chi}_{\beta\chi} + 8 a_1 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\chi}_{\beta\chi} +$
	$4 a_2 \Gamma^{\alpha \ \beta}_{\ \alpha} \Gamma^{\chi}_{\ \beta \chi} + 12 a_3 \Gamma^{\alpha \ \beta}_{\ \alpha} \Gamma^{\chi}_{\ \beta \chi} - 24 a_7 \Gamma^{\alpha \ \beta}_{\ \alpha} \Gamma^{\chi}_{\ \beta \chi} +$
	$4 a_9 \Gamma^{\alpha \beta}_{\alpha} \Gamma^{\chi}_{\beta \chi} - 12 a_7 \Gamma^{\alpha \beta}_{\alpha} \Gamma^{\chi}_{\beta \chi} + 8 a_1 \Gamma^{\alpha \beta}_{\alpha} \Gamma^{\chi}_{\chi \beta} +$
	$4 a_2 \Gamma^{\alpha \beta}_{\alpha} \Gamma^{\chi}_{\chi\beta} - 12 a_7 \Gamma^{\alpha \beta}_{\alpha} \Gamma^{\chi}_{\chi\beta} + 4 a_9 \Gamma^{\alpha \beta}_{\alpha} \Gamma^{\chi}_{\chi\beta} +$
	$24 \; h^{\alpha\beta} \; \mathcal{T}_{\alpha\beta} + 24 \; \Gamma^{\alpha\beta\chi} \; \Delta_{\alpha\beta\chi} - 12 a_0 \; \Gamma^{\alpha\beta\chi} \; \partial_\beta h_{\alpha\chi} -$
	$6a_0 \Gamma^{\alpha}_{\alpha}^{\beta} \partial_{\beta}h^{\chi}_{\chi} + 6a_0 \Gamma^{\alpha\beta}_{\alpha} \partial_{\beta}h^{\chi}_{\chi} - 6a_0 h^{\chi}_{\chi} \partial_{\beta}\Gamma^{\alpha}_{\alpha}^{\beta} +$
	$6 a_0 h_{\chi}^{\chi} \partial_{\beta} \Gamma_{\alpha}^{\alpha\beta} - 12 a_0 h_{\alpha\chi} \partial_{\beta} \Gamma^{\alpha\beta\chi} + 6 a_0 h^{\alpha\beta} \partial_{\beta} \partial_{\alpha} h_{\chi}^{\chi} -$
	$3 a_0 \partial_{\beta} h_{\chi}^{\chi} \partial^{\beta} h_{\alpha}^{\alpha} + 12 a_0 \Gamma_{\alpha}^{\alpha\beta} \partial_{\chi} h_{\beta}^{\chi} + 6 a_0 \partial^{\beta} h_{\alpha}^{\alpha} \partial_{\chi} h_{\beta}^{\chi}$
	$12 a_0 h^{\alpha\beta} \partial_{\chi} \partial_{\beta} h_{\alpha}^{\chi} + 6 a_0 h^{\alpha}_{\alpha} \partial_{\chi} \partial_{\beta} h^{\beta\chi} +$
	$6a_0 h^{\alpha\beta} \partial_{\chi} \partial^{\chi} h_{\alpha\beta} - 6a_0 h^{\alpha}_{\alpha} \partial_{\chi} \partial^{\chi} h^{\beta}_{\beta} - 6a_0 \partial_{\beta} h_{\alpha\chi} \partial^{\chi} h^{\alpha\beta} +$
	$3 a_0 \partial_{\chi} h_{\alpha\beta} \partial^{\chi} h^{\alpha\beta} + 12 a_0 h_{\beta\chi} \partial^{\chi} \Gamma^{\alpha\beta}_{\alpha} +$
	$48a_1\partial_\alpha \Gamma_{\beta\chi\mu}\partial^\mu \Gamma^{\alpha\beta\chi} - 48a_1\partial_\alpha \Gamma_{\beta\mu\chi}\partial^\mu \Gamma^{\alpha\beta\chi} -$
	$48 a_1 \partial_{\alpha} \Gamma_{\chi\beta\mu} \partial^{\mu} \Gamma^{\alpha\beta\chi} + 48 a_1 \partial_{\alpha} \Gamma_{\chi\mu\beta} \partial^{\mu} \Gamma^{\alpha\beta\chi} +$
	$24a_1\partial_\alpha \Gamma_{\mu\beta\chi}\partial^\mu \Gamma^{\alpha\beta\chi} - 24a_1\partial_\alpha \Gamma_{\mu\chi\beta}\partial^\mu \Gamma^{\alpha\beta\chi} -$
	$48 a_1 \partial_{\beta} \Gamma_{\alpha \chi \mu} \partial^{\mu} \Gamma^{\alpha \beta \chi} + 24 a_1 \partial_{\beta} \Gamma_{\alpha \mu \chi} \partial^{\mu} \Gamma^{\alpha \beta \chi} -$
	$24 a_1 \partial_{\beta} \Gamma_{\chi\mu\alpha} \partial^{\mu} \Gamma^{\alpha\beta\chi} + 24 a_1 \partial_{\chi} \Gamma_{\alpha\beta\mu} \partial^{\mu} \Gamma^{\alpha\beta\chi} -$
	$24 a_1 \partial_{\chi} \Gamma_{\beta\alpha\mu} \partial^{\mu} \Gamma^{\alpha\beta\chi} + 48 a_1 \partial_{\chi} \Gamma_{\beta\mu\alpha} \partial^{\mu} \Gamma^{\alpha\beta\chi} -$
	$24 a_1 \partial_{\mu} \Gamma_{\alpha\beta\chi} \partial^{\mu} \Gamma^{\alpha\beta\chi} + 24 a_1 \partial_{\mu} \Gamma_{\alpha\chi\beta} \partial^{\mu} \Gamma^{\alpha\beta\chi} +$
	$24 a_1 \partial_{\mu} \Gamma_{\beta \alpha \chi} \partial^{\mu} \Gamma^{\alpha \beta \chi} - 48 a_1 \partial_{\mu} \Gamma_{\beta \chi \alpha} \partial^{\mu} \Gamma^{\alpha \beta \chi} +$
	$24 a_1 \partial_{\mu} \Gamma_{\chi \beta \alpha} \partial^{\mu} \Gamma^{\alpha \beta \chi} + 24 a_1 \partial_{\chi} \partial_{\beta} h_{\alpha \mu} \partial^{\mu} \partial^{\chi} h^{\alpha \beta} -$
	$24 a_1 \partial_\mu \partial_\beta h_{\alpha\chi} \partial^\mu \partial^\chi h^{\alpha\beta}))[t, x, y, z] dz dy dx dt$

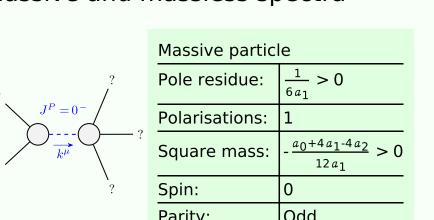
	$\Delta_0^{\#1}$	Δ ₀ ^{#2}	Δ ₀ ^{#3}	$\Delta_0^{\#4}$	${\cal T}_0^{\#1}$	${\cal T}_{0}^{\#2}$	$\Delta_0^{\#1}$
$\Delta_0^{\#1}\dagger$	$-\frac{4}{2a_0+2a_1+a_2+3a_3}$	0	0	0	0	0	0
$\Delta_{0}^{\#2}$ †	0	$\frac{1}{-6(a_0+4a_6)+24a_7}$	$\frac{1}{6(a_0+4a_6-4a_7)}$	0	0	0	0
$\Delta_0^{#3}$ †	0	$\frac{1}{6a_0 + 24a_6 - 24a_7}$	$\frac{1}{-6(a_0+4a_6)+24a_7}$	0	0	0	0
$\Delta_0^{\#4}$ †	0	0	0	0	0	0	0
${\cal T}_{0}^{\#1}\dagger$	0	0	0	0	$\frac{4}{a_0 k^2}$	0	0
${\cal T}_{0}^{\#2}\dagger$	0	0	0	0	0	0	0
$\Delta_0^{\#1}$ †	0	0	0	0	0	0	$-\frac{2}{a_0+4(a_1-a_2+3a_1k^2)}$

	Fundamental fields	Multiplicities	
	$\partial_{\beta}\partial_{\alpha}\mathcal{T}^{\alpha\beta} == 0$	1	
	$2 \partial_{\alpha} \Delta^{\alpha\beta}_{\beta} = \partial_{\beta} \Delta^{\alpha}_{\alpha}^{\beta} + \partial_{\beta} \Delta^{\alpha\beta}_{\alpha}$	1	
= 0	$\partial_{\alpha}\Delta^{\alpha\beta}_{\beta} + \partial_{\beta}\Delta^{\alpha}_{\alpha}^{\beta} + \partial_{\beta}\Delta^{\alpha\beta}_{\alpha} == 0$	1	$\Gamma_{0+}^{*1} + \frac{1}{4} (-2 a_0)$
	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\mathcal{T}^{\beta\chi} == \partial_{\chi}\partial^{\chi}\partial_{\beta}\mathcal{T}^{\alpha\beta}$	3	Γ ₀ ^{#2} †
== 0	$==0 2 \partial_{\beta}\partial^{\alpha}\Delta^{\beta\chi}{}_{\chi} + \partial_{\chi}\partial^{\chi}\Delta^{\beta\alpha}{}_{\beta} + \partial_{\chi}\partial^{\chi}\Delta^{\beta}{}_{\beta}{}^{\alpha} ==$	3	Γ ₀ ^{#3} †
	$\partial_{\chi}\partial^{\alpha}\Delta^{\beta}_{\ \beta}^{\ \chi} + \partial_{\chi}\partial^{\alpha}\Delta^{\beta\chi}_{\ \beta} + 2\ \partial_{\chi}\partial^{\chi}\Delta^{\alpha\beta}_{\ \beta}$		Γ ₀ ^{#4} †
== 0	$==0 \left \partial_{\beta} \partial^{\alpha} \Delta^{\beta \chi}_{\chi} + \partial_{\chi} \partial^{\alpha} \Delta^{\beta}_{\beta}^{\chi} + \partial_{\chi} \partial^{\alpha} \Delta^{\beta \chi}_{\beta} \right ==$	3	$h_{0^{+}}^{#1} \dagger$
	$\partial_{\chi}\partial^{\chi}\Delta^{\alpha\beta}_{\beta} + \partial_{\chi}\partial^{\chi}\Delta^{\beta\alpha}_{\beta} + \partial_{\chi}\partial^{\chi}\Delta^{\beta}_{\beta}^{\alpha}$		h ₀₊ ^{#2} †
ints/	ints/gauge generators:	12	Γ ₀ -1 +

							-1010μ	σοριναχο
	$\Delta^{\#1}_{2^+lphaeta}$	$\Delta^{\#2}_{2^+lphaeta}$	$\Delta^{\#3}_{2^+lphaeta}$	#1 2 ⁺ αβ	$\Delta_{2}^{\#1}{}_{lphaeta\chi}$		$\Delta_{2^{-} \alpha \beta \chi}^{\#2}$	
$\Delta_{2}^{\#1} \dagger^{\alpha\beta}$	$\frac{4 (a_0 - 4 a_1 - 2 a_2 - 3 a_3 + 16 a_6 - 4 a_7 - 2 a_9)}{{a_0}^2 + (2 a_1 + a_2) (2 a_1 + a_2 + 3 a_3 - 16 a_6 + 4 a_7) - a_9}^2 - a_0 (6 a_1 + 3 a_2 + 3 a_3 - 16 a_6 + 4 a_7 + 2 a_9)}$	0	$\frac{4(2a_1+a_2+a_9)}{\sqrt{3}(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))}$	0	0		0	
$\Delta_{2}^{\#2}$ † lphaeta	0	$\frac{1}{-3(a_0+4a_6)+12a_7}$	0	0	0		0	
$\Delta_{2}^{#3} \dagger^{\alpha\beta}$	$\frac{4(2a_1+a_2+a_9)}{\sqrt{3}(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))}$	0	$\frac{4(a_0-2a_1-a_2)}{3(a_0^2+(2a_1+a_2)(2a_1+a_2+3a_3-16a_6+4a_7)-a_9^2-a_0(6a_1+3a_2+3a_3-16a_6+4a_7+2a_9))}$	0	0		0	
${\mathcal T}_{\mathtt{2}^{+}}^{\mathtt{1}}\dagger^{lphaeta}$	0	0	0	$\frac{8}{{}^{1}0}k^{2}$	0		0	
$\Delta_2^{\#1} \dagger^{lphaeta\chi}$	0	0	0	0	$4(a_0-4a_1-2a_2-3a_3+16a_6-4a_7-2a_9)$	√2 /2 2 /2 2 /2 2 /2 2 /2 2 /2 2 /2 2 /	$4(2a_1+a_2+a_9)$	16 - 14 - 1
$\Delta_2^{\#2} \dagger^{\alpha\beta\chi}$		0	0	0 -	$\frac{a_0^2 + (2a_1 + a_2)(2a_1 + a_2 + 3a_3 - 16a_6 + 4a_7) - a_9^2 - a_0(6a_1 + 3a_2 + 3a_3 - 16a_6 + 4a_7 + 2a_9)}{4(2a_1 + a_2 + a_9)}$ $\sqrt{3} (a_0^2 + (2a_1 + a_2)(2a_1 + a_2 + 3a_3 - 16a_6 + 4a_7) - a_9^2 - a_0(6a_1 + 3a_2 + 3a_3 - 16a_6 + 4a_7 + 2a_9))}$		$+3a_3 - 16a_6 + 4a_7 - a_9^2 - a_0 (6a_1 + 3a_2 + 3a_3 + a_2 + a_2)$ $-3a_3 - 16a_6 + 4a_7 - a_9^2 - a_0 (6a_1 + 3a_2 + 3a_3 - a_3 + a_2 + a_3 + a_$	

_	$\Gamma^{\#1}_{2^+ \alpha \beta}$	$\Gamma^{\#2}_{2^+ \alpha \beta}$	Γ ^{#3} ₂ + αβ	$h_2^{\#1}_{lpha eta}$	$\Gamma_{2}^{\#1}{}_{\alpha\beta\chi}$	Γ ₂ - _{αβχ}
$^{1}_{+}$ † $^{\alpha\beta}$	$\frac{1}{4}(a_0-2a_1-a_2)$	0	$-\frac{1}{4}\sqrt{3}(2a_1+a_2+a_9)$	0	0	0
² † ^{αβ}	0	$-3(a_0+4a_6-4a_7)$	0	0	0	0
^{±3} † ^{αβ}	$-\frac{1}{4} \sqrt{3} (2 a_1 + a_2 + a_9)$	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
$^{1}_{+}$ † $^{\alpha\beta}$	0	0	0	$-\frac{a_0 k^2}{8}$	0	0
1 † $^{\alpha\beta\chi}$	0	0	0	0	$\frac{1}{4}(a_0 - 2a_1 - a_2)$	$-\frac{1}{4}\sqrt{3}(2a_1+a_2+a_9)$
2 † $^{\alpha\beta\chi}$	0	0	0	0	$-\frac{1}{4}\sqrt{3}(2a_1+a_2+a_9)$	$\frac{3}{4}$ (a_0 - 4 a_1 - 2 a_2 - 3 a_3 + 16 a_6 - 4 a_7 - 2 a_9
-	Γ ₃ -1 αβχ					

Massive and massless spectra



			9		
	Massive particl	le	? /	Quadratic pole	ē
	Pole residue:	$\left \frac{1}{6a_1} > 0\right $?	Pole residue:	$-\frac{1}{a_0} >$
0	Polarisations:	1	?	Polarisations:	2
?	Square mass:	$-\frac{a_0 + 4a_1 - 4a_2}{12a_1} > 0$?		
	Spin:	0			

Unitarity conditions

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