Wave operator and propagator

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	$\Delta_{1}^{\#1}{}_{+}{}_{\alpha\beta}$	$\Delta_{1^{+}lphaeta}^{\#2}$	$\Delta_{1}^{\#3}{}_{lphaeta}$	$\Delta_{1}^{\#1}{}_{lpha}$	$\Delta_{1^{-}\alpha}^{\#2}$	$\Delta_{1}^{\#3}{}_{\alpha}$	$\Delta_{1^{-}\alpha}^{\#4}$	$\Delta_{1-lpha}^{\#5}$	$\Delta_{1}^{ extit{#}6}{}_{lpha}$	${\mathcal T}_{1^- lpha}^{\sharp 1}$
$\Delta_1^{\#1} \uparrow$	$\frac{4}{3} \left(-\frac{1}{a_0 + 4a_1 - 4a_2} + \frac{2a_1 + a_2 - 2a_5 - 6a_7 + 2a_9}{2(2a_1 + a_2)(a_5 + 3a_7) + a_9^2 + a_0(2a_1 + a_2 - 2a_5 - 6a_7 + 2a_9)} \right)$	$\frac{2}{3}\sqrt{2}\left(-\frac{1}{a_0+4a_1-4a_2}-\frac{2(2a_1+a_2-2a_5-6a_7+2a_9)}{2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9)}\right)$	$\frac{4(2a_1+a_2+a_9)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	0	0	0	0	0	0	0
$\Delta_{1}^{\#2}$ †	$\frac{2}{3}\sqrt{2}\left(-\frac{1}{a_0+4a_1-4a_2}-\frac{2(2a_1+a_2-2a_5-6a_7+2a_9)}{2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9)}\right)$	$(2a_1+a_2-2a_5-6a_7+2a_9)$	$4 \sqrt{2} (2a_1 + a_2 + a_9)$	0	0	0	0	0	0	0
$\Delta_{1}^{#3}$ †	4/2 - 1 - 1 - 1	$\frac{4\sqrt{2}(2a_1+a_2+a_9)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	$-\frac{4(a_0-2a_1-a_2)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	0	0	0	0	0	0	0
$\Delta_1^{\#1}$.	\dagger^{α} 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	$-\frac{4\sqrt{\frac{2}{3}}(2a_1+a_2+a_9)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	$\frac{4(2a_1+a_2+a_9)}{3\sqrt{3}(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2))}$	$a_{2}-2a_{5}-6a_{7}+2a_{9})) 0$
$\Delta_1^{\#2}$.	\dagger^{α} 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	$-\frac{8(2a_1+a_2+a_9)}{3\sqrt{3}(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	$\frac{4\sqrt{\frac{2}{3}}(2a_1+a_2+a_9)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2)a_9^2+a_0(2a_1+a_1+a_2)a_9^2+a_0(2a_1+a_1+a_2)a_9^2+a_0(2a_1+a_1+a_2)a_9^2+a_0(2a_1+a_1+a_1+a_2)a_9^2+a_0(2a_1+a_1+a_1+a_1+a_1+a_1+a_1+a_1+a_1+a_1+$	
$\Delta_1^{\#3}$	\dagger^{α} 0	0	0	0	0	$-\frac{10}{9(a_0+2a_5-6a_7)}-\frac{1}{6(3a_0-2(a_5-8a_6+5a_7-4a_{13}k^2))}$	$\frac{1}{18} \sqrt{5} \left(\frac{4}{a_0 + 2 a_5 - 6 a_7} - \frac{3}{3 a_0 - 2 a_5 + 16 a_6 - 10 a_7 + 8 a_{13} k^2} \right)$	$-\frac{1}{\sqrt{2} (9 a_0 - 6 (a_5 - 8 a_6 + 5 a_7 - 4 a_{13} k^2))}$	$-\frac{1}{9 a_0-6 (a_5-8 a_6+5 a_7-4 a_{13})}$	
$\Delta_1^{\#4}$.	\dagger^{α} 0	0	0	0	0	$\frac{1}{18} \sqrt{5} \left(\frac{4}{a_0 + 2a_5 - 6a_7} - \frac{3}{3a_0 - 2a_5 + 16a_6 - 10a_7 + 8a_{13}} \right)$		$-\frac{\sqrt{\frac{5}{2}}}{9a_0-6(a_5-8a_6+5a_7-4a_{13}k^2)}$	$-\frac{\sqrt{5}}{9 a_0-6 (a_5-8 a_6+5 a_7-4 a_{13})}$	$\frac{1}{k^2}$
$\Delta_1^{\#5}$.	\dagger^{α} 0	O	0	$-\frac{4\sqrt{\frac{2}{3}}(2a_1+a_2+a_9)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	$-\frac{8(2a_1+a_2+a_9)}{3\sqrt{3}(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	$-\frac{1}{\sqrt{2} (9 a_0 - 6 (a_5 - 8 a_6 + 5 a_7 - 4 a_{13} k^2))}$	$\sqrt{\frac{5}{2}}$	$\frac{8(-a_0+2a_1+a_2)}{9(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))} - \frac{1}{9a_0-6(a_5-8a_6+5a_7-4a_{13}k^2)}$	$(\sqrt{2} (12a_0^2 - 3a_9^2 - a_0 (30a_1 + 15a_2 + 2a_5 - 64a_6 + 2a$	$(6 a_{13} k^2)))/$
$\Delta_1^{\#6}$.	\dagger^{α} 0	O	0	$\frac{4 \left(2 a_{1} + a_{2} + a_{9}\right)}{3 \sqrt{3} \left(2 \left(2 a_{1} + a_{2}\right) \left(a_{5} + 3 a_{7}\right) + a_{9}^{2} + a_{0} \left(2 a_{1} + a_{2} - 2 a_{5} - 6 a_{7} + 2 a_{9}\right)\right)}$	$\frac{4\sqrt{\frac{2}{3}}(2a_1+a_2+a_9)}{3(2(2a_1+a_2)(a_5+3a_7)+a_9^2+a_0(2a_1+a_2-2a_5-6a_7+2a_9))}$	$-\frac{1}{9 a_0 - 6 (a_5 - 8 a_6 + 5 a_7 - 4 a_{13} k^2)}$	$-\frac{\sqrt{5}}{9 a_0 - 6 (a_5 - 8 a_6 + 5 a_7 - 4 a_{13} k^2)}$	$(\sqrt{2} (12a_0^2 - 3a_9^2 - a_0 (30a_1 + 15a_2 + 2a_5 - 64a_6 + 22a_7 + 6a_9 - 32a_{13}k^2) + 2(2a_1 + a_2)(a_5 - 32a_6 + 11a_7 - 16a_{13}k^2)))/$ $(9(2(2a_1 + a_2)(a_5 + 3a_7) + a_9^2 + a_0(2a_1 + a_2 - 2a_5 - 6a_7 + 2a_9))$ $(3a_0 - 2(a_5 - 8a_6 + 5a_7 - 4a_{13}k^2)))$	$\frac{-4a_0+8a_1+4a_2}{9(2(2a_1+a_2)(a_5+3a_7)+a_0^2+a_0(2a_1+a_2-2a_5-6a_7+2a_0)}$	$\frac{2}{9 a_0 - 6 (a_5 - 8 a_6 + 5 a_7 - 4 a_{13} k^2)} \qquad 0$
${\mathcal T}_1^{\sharp 1}$:	\dagger^{α} 0	0	0	0	0	0	0	0	0	0
	$\Gamma^{\#1}_{1^+ \alpha\beta}$ $\Gamma^{\#2}_{1^+ \alpha\beta}$ $\Gamma^{\#3}_{1^+ \alpha\beta}$	$\Gamma_{1}^{\#1}{}_{\alpha}$ $\Gamma_{1}^{\#2}{}_{\alpha}$ $\Gamma_{1}^{\#3}{}_{\alpha}$	$\Gamma_1^{\#4}{}_{lpha}$	Γ ₁ ^{#,5} _α	Γ <u>#</u> 6	$h_1^{\#1}{}_{\alpha}$ Quadra	atic (free) action	Source constraints		$\Gamma_{0+1}^{\#1}$ $\Gamma_{0+2}^{\#2}$ $\Gamma_{0+3}^{\#3}$ $\Gamma_{0+4}^{\#3}$ $\Gamma_{0+4}^{\#1}$ $\Gamma_{0+4}^{\#2}$
$\Gamma_{1}^{\#1} + \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 S==		7 #2 0	mental fields Multiplicities	+ + + + + + +
$\Gamma_{1}^{#2} + \alpha^{\beta}$	$-\frac{a_0+2a_1-3a_2}{2\sqrt{2}} \qquad \frac{1}{2}\left(-2a_1+a_2\right) \qquad \frac{2a_1+a_2+a_9}{2\sqrt{2}}$	0 0 0	0	0	0	o IIII	$(\frac{1}{24} (4 (-2 a_0 + 2 a_1 + a_2 - 12 a_6 + 2 a_9) \Gamma_{\alpha \mu}^{\mu} \Gamma_{\beta}^{\alpha \beta} - 3 a_5)$ $a_7 + 4 a_9) \Gamma_{\alpha \beta \mu} \Gamma^{\alpha \beta \mu} - 3 a_5$	$\mathcal{T}_{0+}^{\#2} == 0 \qquad \qquad \partial_{\beta} \partial_{\alpha} \mathcal{T}_{0+}^{\#2} == 0$	$\frac{\alpha\beta}{2} = 0 \qquad \qquad 1$	0 0 0 0
$\Gamma_{1+}^{\#3} + \alpha \beta = \frac{1}{4}$	$\frac{2a_1+a_2+a_9}{2\sqrt{2}} -\frac{3}{4}(2a_1+a_2-2a_5-6a_7+2a_9)$	0 0 0	0	0	0	0	$a_7 + 4 a_9$) $\Gamma_{\alpha\beta\mu}$ $\Gamma^{\alpha\beta\mu} - 3 a_{\alpha\beta\mu}$		$\frac{1}{3} = 2 \left(\partial_{\beta} \Delta^{\alpha}_{\alpha}^{\beta} + \partial_{\beta} \Delta^{\alpha\beta}_{\alpha} \right) \qquad 1$	$\left[-3 a_0\right]$
-#1 , α		$a_0-2a_1-a_2$		2 <i>a</i> ₁ + <i>a</i> ₂ + <i>a</i> ₉	2 a ₁ +a ₂ +a ₉		$12 a_2 \Gamma_{\alpha\mu\beta} \Gamma^{\alpha\beta\mu} + 6 a_5 \Gamma_{\alpha\mu\beta} \Gamma^{\alpha\beta\mu}$	$\Delta_{0+}^{\#1} == 0 \qquad \qquad \partial_{\beta} \Delta_{\alpha}^{\alpha}$	$\beta == \partial_{\beta} \Delta^{\alpha\beta}_{\alpha} \qquad \qquad 1$	-2 (a ₅

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$\Gamma_{1}^{\#1} \dagger^{lphaeta}$	$\frac{1}{4} \left(-a_0 - 6 a_1 + 5 a_2 \right)$	$-\frac{a_0+2a_1-3a_2}{2\sqrt{2}}$	$\frac{1}{4} \left(-2 a_1 - a_2 - a_9 \right)$	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	
$\Gamma_{1}^{#3} \dagger^{\alpha\beta}$	$\frac{1}{4} \left(-2 a_1 - a_2 - a_9 \right)$	$\frac{2a_1+a_2+a_9}{2\sqrt{2}}$	$-\frac{3}{4} (2 a_1 + a_2 - 2 a_5 - 6 a_7 + 2 a_9)$	0	0	0	0	0	0	
$\Gamma_1^{#1} \uparrow^{\alpha}$	0	0	0	$\frac{1}{12}(a_0-2a_1-a_2)$	$\frac{a_0 - 2 a_1 - a_2}{6 \sqrt{2}}$	0	0	$-\frac{2a_1+a_2+a_9}{2\sqrt{6}}$	$\frac{2a_1 + a_2 + a_9}{4\sqrt{3}}$	
$\Gamma_1^{#2} \uparrow^{\alpha}$	0	0	0	$\frac{a_0 - 2 a_1 - a_2}{6 \sqrt{2}}$	$\frac{1}{6}$ (a_0 - 2 a_1 - a_2)	0	0	$-\frac{2a_1+a_2+a_9}{2\sqrt{3}}$	$\frac{2 a_1 + a_2 + a_9}{2 \sqrt{6}}$	
$\Gamma_{1}^{#3} + \alpha$	0	0	0	0	0	$\frac{1}{12} \left(-9 a_0 - 14 a_5 - 8 a_6 + 50 a_7 - 4 a_{13} k^2 \right)$	$\frac{1}{3} \sqrt{5} (a_5 - 2 a_6 - a_7 - a_{13} k^2)$	$\frac{-3a_0+2(a_5-8a_6+5a_7-4a_{13}k^2)}{12\sqrt{2}}$	$-\frac{a_0}{4} + \frac{1}{6} (a_5 - 8 a_6 + 5 a_7 - 4 a_{13} k^2)$	
$\Gamma_{1}^{\#4} + ^{\alpha}$	0	0	0	0	0	$\frac{1}{3} \sqrt{5} (a_5 - 2 a_6 - a_7 - a_{13} k^2)$	$\frac{1}{12} \left(-9 a_0 + 2 a_5 - 40 a_6 + 34 a_7 - 20 a_{13} k^2 \right)$	$\frac{1}{12} \sqrt{\frac{5}{2}} \left(-3 a_0 + 2 \left(a_5 - 8 a_6 + 5 a_7 - 4 a_{13} k^2 \right) \right)$	$\frac{1}{12} \sqrt{5} \left(-3 a_0 + 2 \left(a_5 - 8 a_6 + 5 a_7 - 4 a_{13} k^2 \right) \right)$	
$\Gamma_{1}^{\#5} + ^{\alpha}$	0	0	0	$-\frac{2a_1+a_2+a_9}{2\sqrt{6}}$	$-\frac{2a_1+a_2+a_9}{2\sqrt{3}}$	$\frac{-3a_0+2(a_5-8a_6+5a_7-4a_{13}k^2)}{12\sqrt{2}}$	$\frac{1}{12} \sqrt{\frac{5}{2}} \left(-3 a_0 + 2 \left(a_5 - 8 a_6 + 5 a_7 - 4 a_{13} k^2 \right) \right)$	$\frac{1}{12} \left(-3 a_0 - 2 \left(6 a_1 + 3 a_2 - 7 a_5 + 8 a_6 - 23 a_7 + 6 a_9 + 4 a_{13} k^2 \right) \right)$	$-\frac{3a_0-6a_1-3a_2+4a_5+16a_6+8a_7-6a_9+8a_{13}k^2}{6\sqrt{2}}$	
$\Gamma_{1}^{#6} + ^{\alpha}$	0	0	0	$\frac{2a_1 + a_2 + a_9}{4\sqrt{3}}$	$\frac{2a_1 + a_2 + a_9}{2\sqrt{6}}$	$-\frac{a_0}{4} + \frac{1}{6} (a_5 - 8 a_6 + 5 a_7 - 4 a_{13} k^2)$	$\frac{1}{12} \sqrt{5} \left(-3 a_0 + 2 \left(a_5 - 8 a_6 + 5 a_7 - 4 a_{13} k^2 \right) \right)$	$-\frac{3 a_0 - 6 a_1 - 3 a_2 + 4 a_5 + 16 a_6 + 8 a_7 - 6 a_9 + 8 a_{13} k^2}{6 \sqrt{2}}$	$\frac{1}{12} \left(-6 a_0 - 6 a_1 - 3 a_2 + 10 a_5 - 32 a_6 + 38 a_7 - 6 a_9 - 16 a_{13} k^2 \right)$	
$h_{1}^{#1} + ^{\alpha}$	0	0	0	0	0	0	0	0	0	
		. #1	. #2		. #3	 #1	ш1	#2		

_	$\Delta_{2}^{\#1}{}_{\alpha\beta}$	$\Delta_{2}^{\#2}{}_{lphaeta}$	$\Delta_{2}^{\#3}{}_{lphaeta}$	$\mathcal{T}_{2}^{\#1}{}_{lphaeta}$	$\Delta^{\#1}_{2^-lphaeta\chi}$	$\Delta_{2^{-} \alpha \beta \chi}^{\# 2}$
$\frac{1}{4} + \frac{\alpha \beta}{2}$	$\frac{4 (2 a_1 + a_2 - 2 a_5 - 6 a_7 + 2 a_9)}{2 (2 a_1 + a_2) (a_5 + 3 a_7) + a_9^2 + a_0 (2 a_1 + a_2 - 2 a_5 - 6 a_7 + 2 a_9)}$	0	$-\frac{4 \left(2 a_{1}+a_{2}+a_{9}\right)}{\sqrt{3} \left(2 \left(2 a_{1}+a_{2}\right) \left(a_{5}+3 a_{7}\right)+a_{9}^{2}+a_{0} \left(2 a_{1}+a_{2}-2 a_{5}-6 a_{7}+2 a_{9}\right)\right)}$	0	0	0
$^2_+$ $^{+\alpha\beta}$	0	$-\frac{4}{3(a_0+2a_5-6a_7)}$	0	0	0	0
$rac{3}{4} + \frac{\alpha \beta}{2}$	$\frac{4 (2 a_1 + a_2 + a_9)}{\sqrt{3} (2 (2 a_1 + a_2) (a_5 + 3 a_7) + a_9^2 + a_0 (2 a_1 + a_2 - 2 a_5 - 6 a_7 + 2 a_9))}$	0	$-\frac{4 (a_0 - 2 a_1 - a_2)}{3 (2 (2 a_1 + a_2) (a_5 + 3 a_7) + a_9^2 + a_0 (2 a_1 + a_2 - 2 a_5 - 6 a_7 + 2 a_9))}$	0	0	0
1 $^{+\alpha eta}$	0	0	0	$-\frac{8}{a_0 k^2}$	0	0
$\dagger^{lphaeta\chi}$	0	0	0	0	$\frac{4 (2 a_1 + a_2 - 2 a_5 - 6 a_7 + 2 a_9)}{2 (2 a_1 + a_2) (a_5 + 3 a_7) + a_9^2 + a_0 (2 a_1 + a_2 - 2 a_5 - 6 a_7 + 2 a_9)}$	$-\frac{4 \left(2 a_{1}+a_{2}+a_{9}\right)}{\sqrt{3} \left(2 \left(2 a_{1}+a_{2}\right) \left(a_{5}+3 a_{7}\right)+a_{9}^{2}+a_{0} \left(2 a_{1}+a_{2}-2 a_{5}-6 a_{7}+2 a_{9}\right)\right)}$
$+^{\alpha\beta\chi}$	0	0	0	0	$-\frac{4 \left(2 a_{1}+a_{2}+a_{9}\right)}{\sqrt{3} \left(2 \left(2 a_{1}+a_{2}\right) \left(a_{5}+3 a_{7}\right)+a_{9}^{2}+a_{0} \left(2 a_{1}+a_{2}-2 a_{5}-6 a_{7}+2 a_{9}\right)\right)}$	$-\frac{4 \left(a_{0} - 2 a_{1} - a_{2}\right)}{3 \left(2 \left(2 a_{1} + a_{2}\right) \left(a_{5} + 3 a_{7}\right) + a_{9}^{2} + a_{0} \left(2 a_{1} + a_{2} - 2 a_{5} - 6 a_{7} + 2 a_{9}\right)\right)}$

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	$\Gamma_{2}^{\#1}_{+ \ lphaeta}$	$\Gamma^{\#2}_{2}{}^{+}_{lphaeta}$	Γ ₂ + _{αβ}	$h_{2}^{\#1}{}_{\alpha\beta}$	$\Gamma_{2}^{\#1}{}_{lphaeta\chi}$	$\Gamma_{2}^{\#2}{}_{lphaeta\chi}$		$\Delta_0^{\#1}$	$\Delta_{0}^{\#2}$	
αβ	$\frac{1}{4} (a_0 - 2 a_1 - a_2)$	0	$-\frac{1}{4}\sqrt{3}(2a_1+a_2+a_9)$	0	0	0	$\Delta_{0}^{\#1} \uparrow$	0	0	
αβ	0	$-\frac{3}{4}(a_0+2a_5-6a_7)$	0	0	0	0	$\Delta_{0}^{\#2}$ †	0	$-\frac{2}{3(a_0+2a_5-6a_7)}-\frac{1}{6a_0-4(a_5-8a_6+5a_7)}$	3
αβ	$-\frac{1}{4}\sqrt{3}(2a_1+a_2+a_9)$	0	$-\frac{3}{4}(2a_1+a_2-2a_5-6a_7+2a_9)$	0	0	0	$\Delta_{0}^{#3}$ †	0	$\frac{2}{3(a_0+2a_5-6a_7)} - \frac{1}{6a_0-4(a_5-8a_6+5a_7)}$	3
$\alpha\beta$	0	0	0	$-\frac{a_0 k^2}{8}$	0	0	Δ ₀ ^{#4} †	0	$-\frac{1}{\sqrt{2} (3 a_0 - 2 (a_5 - 8 a_6 + 5 a_7))}$	
αβχ	0	0	0	0	$\frac{1}{4}(a_0 - 2a_1 - a_2)$	$-\frac{1}{4}\sqrt{3}(2a_1+a_2+a_9)$	${\cal T}_0^{\#1}\dagger$	0	0	
αβχ	0	0	0	0	$-\frac{1}{4}\sqrt{3}(2a_1+a_2+a_9)$	$-\frac{3}{4}(2a_1+a_2-2a_5-6a_7+2a_9)$	${\cal T}_{0}^{\#2}\dagger$	0	0	
							$\Delta_0^{\#1}$ †	0	0	

$(2a_1+a_2-2a_5-6a_7+2a_9)$		$a_1 + a_2 - 2a_5 - 6a_7 + 2a_9))$ $3(2(2a_1 + a_2)(a_1 + a_2))$	$(2a_1+a_2-2a_5-6a_7+2a_9)$)			
$\Delta_0^{\#1}$		$\Delta_0^{\#2}$	Δ ₀ #3	$\Delta_0^{\#4}$	$\mathcal{T}_{0}^{\#1}$	${\cal T}_{0}^{\#2}$	$\Delta_0^{\#1}$
$\Delta_{0}^{\#1}$ †	0	0	0	0	0	0	0
$\Delta_{0}^{#2}$ †	0	$-\frac{2}{3(a_0+2a_5-6a_7)}-\frac{1}{6a_0-4(a_5-8a_6+5a_7)}$	$\frac{2}{3(a_0+2a_5-6a_7)} - \frac{1}{6a_0-4(a_5-8a_6+5a_7)}$	$-\frac{1}{\sqrt{2} (3 a_0 - 2 (a_5 - 8 a_6 + 5 a_7))}$	0	0	0
$\Delta_{0}^{#3}$ †	0	$\frac{2}{3(a_0+2a_5-6a_7)} - \frac{1}{6a_0-4(a_5-8a_6+5a_7)}$	$-\frac{2}{3(a_0+2a_5-6a_7)}-\frac{1}{6a_0-4(a_5-8a_6+5a_7)}$	$-\frac{1}{\sqrt{2} (3 a_0 - 2 (a_5 - 8 a_6 + 5 a_7))}$	0	0	0
$\Delta_{0}^{\#4}$ †	0	$-\frac{1}{\sqrt{2} (3 a_0 - 2 (a_5 - 8 a_6 + 5 a_7))}$	$-\frac{1}{\sqrt{2} (3 a_0 - 2 (a_5 - 8 a_6 + 5 a_7))}$	$\frac{1}{-3 a_0 + 2 (a_5 - 8 a_6 + 5 a_7)}$	0	0	0
${\cal T}_{0}^{\#1}\dagger$		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	$-\frac{2}{a_0+4a_1-4a_2}$

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$\iiint (\frac{1}{24}) (4)$	$-2 a_0 + 2 a_1 + a_2 - 12 a_6 + 2 a_9) \Gamma_{\alpha \mu}^{\mu} \Gamma_{\beta}^{\alpha \beta} - 3 (a_0 + 8 a_1 - 2 a_5 - 18 a_5 - 18 a_1 - 2 a_5 - 18 a_1 $
	$a_7 + 4 a_9) \Gamma_{lphaeta\mu} \Gamma^{lphaeta\mu} - 3 a_0 \Gamma_{lpha\mueta} \Gamma^{lphaeta\mu} -$
	$12 a_2 \Gamma_{\alpha\mu\beta} \Gamma^{\alpha\beta\mu} + 6 a_5 \Gamma_{\alpha\mu\beta} \Gamma^{\alpha\beta\mu} +$
	$54a_7\Gamma_{lpha\mueta}\Gamma^{lphaeta\mu}$ - $12a_9\Gamma_{lpha\mueta}\Gamma^{lphaeta\mu}$ - $12a_2\Gamma^{lphaeta\mu}\Gamma_{etalpha\mu}$ -
	$12a_5\Gamma^{lphaeta\mu}\Gamma_{etalpha\mu}$ - $12a_0\Gamma^{lphaeta\mu}\Gamma_{eta\mulpha}$ + $24a_2\Gamma^{lphaeta\mu}\Gamma_{eta\mulpha}$ -
	$24 a_5 \Gamma^{\alpha\beta\mu} \Gamma_{\beta\mu\alpha} + 12 a_9 \Gamma^{\alpha\beta\mu} \Gamma_{\beta\mu\alpha} + 2 a_0 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\mu}_{\beta\mu}$
	$16 a_1 \Gamma^{\alpha}_{\alpha}{}^{\beta} \Gamma^{\mu}_{\beta\mu} - 8 a_2 \Gamma^{\alpha}_{\alpha}{}^{\beta} \Gamma^{\mu}_{\beta\mu} + 12 a_5 \Gamma^{\alpha}_{\alpha}{}^{\beta} \Gamma^{\mu}_{\beta\mu} +$
	$12 a_7 \Gamma^{\alpha}_{\alpha}{}^{\beta} \Gamma^{\mu}_{\beta\mu} - 12 a_9 \Gamma^{\alpha}_{\alpha}{}^{\beta} \Gamma^{\mu}_{\beta\mu} + 2 a_0 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\mu}_{\beta\mu} +$
	$12 a_5 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\mu}_{\beta\mu} + 12 a_7 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\mu}_{\beta\mu} - 4 a_9 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\mu}_{\beta\mu} +$
	$24a_1\Gamma^{lphaeta\mu}\Gamma_{\muetalpha}$ - $12a_5\Gamma^{lphaeta\mu}\Gamma_{\muetalpha}$ + $12a_9\Gamma^{lphaeta\mu}\Gamma_{\muetalpha}$ -
	$4a_0 \Gamma^{\alpha}_{\alpha}^{\beta} \Gamma^{\mu}_{\beta\mu}$ - $24a_7 \Gamma^{\alpha}_{\alpha}^{\beta} \Gamma^{\mu}_{\beta\mu}$ + $4a_9 \Gamma^{\alpha}_{\alpha}^{\beta} \Gamma^{\mu}_{\beta\mu}$ -
	$12 a_7 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\mu}_{\beta\mu} + 8 a_1 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\mu}_{\mu\beta} + 4 a_2 \Gamma^{\alpha\beta}_{\alpha} \Gamma^{\mu}_{\mu\beta}$
	$12 a_7 \Gamma^{\alpha}_{\alpha}{}^{\beta} \Gamma^{\mu}_{\mu\beta} + 4 a_9 \Gamma^{\alpha}_{\alpha}{}^{\beta} \Gamma^{\mu}_{\mu\beta} + 24 h^{\alpha\beta} \mathcal{T}_{\alpha\beta} +$
	24 $\Gamma^{\alpha\beta\chi}$ $\Delta_{\alpha\beta\chi}$ - 12 a_0 $\Gamma^{\alpha\beta\mu}$ $\partial_{\beta}h_{\alpha\mu}$ - 6 a_0 $\Gamma^{\alpha}_{\ \alpha}^{\ \beta}$ $\partial_{\beta}h^{\mu}_{\ \mu}$ +
	$6a_0 \Gamma^{\alpha\beta}_{\alpha} \partial_{\beta}h^{\mu}_{\mu} - 6a_0 h^{\mu}_{\mu} \partial_{\beta}\Gamma^{\alpha\beta}_{\alpha} + 6a_0 h^{\mu}_{\mu} \partial_{\beta}\Gamma^{\alpha\beta}_{\alpha} -$
	$12 a_0 h_{\alpha\mu} \partial_{\beta} \Gamma^{\alpha\beta\mu} + 6 a_0 h^{\alpha\beta} \partial_{\beta} \partial_{\alpha} h^{\mu}_{\ \mu}$
	$3 a_0 \partial_{\beta} h^{\mu}_{\ \mu} \partial^{\beta} h^{\alpha}_{\ \alpha} + 12 a_0 \Gamma^{\alpha}_{\ \alpha}^{\ \beta} \partial_{\mu} h^{\mu}_{\beta} + 6 a_0 \partial^{\beta} h^{\alpha}_{\ \alpha} \partial_{\mu} h^{\mu}_{\beta}$
	$12 a_0 h^{\alpha\beta} \partial_{\mu} \partial_{\beta} h_{\alpha}^{\mu} + 6 a_0 h^{\alpha}_{\alpha} \partial_{\mu} \partial_{\beta} h^{\beta\mu} +$
	$6 a_0 h^{\alpha\beta} \partial_{\mu} \partial^{\mu} h_{\alpha\beta} - 6 a_0 h^{\alpha}_{\alpha} \partial_{\mu} \partial^{\mu} h^{\beta}_{\beta} -$
	$6 a_0 \partial_{\beta} h_{\alpha\mu} \partial^{\mu} h^{\alpha\beta} + 3 a_0 \partial_{\mu} h_{\alpha\beta} \partial^{\mu} h^{\alpha\beta} +$
	$12 a_0 h_{\beta\mu} \partial^{\mu} \Gamma^{\alpha}_{\alpha}{}^{\beta} + 24 a_{13} \partial_{\alpha} \Gamma^{\nu}_{\mu\nu} \partial^{\mu} \Gamma^{\alpha\beta}_{\beta} -$
	$24 a_{13} \partial_{\mu} \Gamma_{\alpha \ \nu}^{\ \nu} \partial^{\mu} \Gamma_{\beta}^{\alpha \beta}))[t, x, y, z] dz dy dx dt$

SO(3) irreps	Fundamental fields	Multiplicitie
$\mathcal{T}_{0}^{#2} == 0$	$\partial_{\beta}\partial_{\alpha}\mathcal{T}^{\alpha\beta} == 0$	1
$\Delta_{0+}^{#3} + 3 \Delta_{0+}^{#2} == 2 \Delta_{0+}^{#4}$	$\partial_{\alpha} \Delta^{\alpha\beta}_{\beta} = 2 \left(\partial_{\beta} \Delta^{\alpha}_{\alpha}^{\beta} + \partial_{\beta} \Delta^{\alpha\beta}_{\alpha} \right)$	1
$\Delta_{0}^{\#1} == 0$	$\partial_{\beta} \Delta_{\alpha}^{\alpha\beta} == \partial_{\beta} \Delta_{\alpha}^{\alpha\beta}$	1
$\mathcal{T}_{1}^{\#1\alpha} == 0$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\mathcal{T}^{\beta\chi} == \partial_{\chi}\partial^{\chi}\partial_{\beta}\mathcal{T}^{\alpha\beta}$	3
$2 (\Delta_{1}^{\#6\alpha} + \Delta_{1}^{\#5\alpha}) ==$	$\partial_{\beta}\partial^{\alpha}\Delta^{\beta\chi}_{\chi}$ +	3
$\Delta_1^{\#4\alpha} + \Delta_1^{\#3\alpha}$	$2\left(\partial_{\chi}\partial^{\chi}\Delta^{\beta\alpha}_{\beta}+\partial_{\chi}\partial^{\chi}\Delta^{\beta}_{\beta}^{\alpha}\right)=$	=
	$2 \partial_{\chi} \partial^{\alpha} \Delta^{\beta}_{\beta}^{\chi} + 2 \partial_{\chi} \partial^{\alpha} \Delta^{\beta \chi}_{\beta} +$	
	$\partial_{\chi}\partial^{\chi}\Delta^{lphaeta}_{eta}$	
$\Delta_1^{\#1\alpha} == \Delta_1^{\#2\alpha}$	$\partial_{\chi}\partial^{\alpha}\Delta^{\beta}_{\ \beta}{}^{\chi} + \partial_{\chi}\partial^{\chi}\Delta^{\beta\alpha}_{\ \beta} = =$	3
	$\partial_{\chi}\partial^{\alpha}\Delta^{\beta\chi}_{\beta} + \partial_{\chi}\partial^{\chi}\Delta^{\beta}_{\beta}^{\alpha}$	
Total constraints/gauge of	12	

<u>.</u>	Γ ₀ ⁺¹ † 0	$h_{0+}^{#2} + 0$	$h_{0+}^{*1} + 0$	Γ ₀ ^{#4} † 0	Γ ₀ ^{#3} † 0	$\Gamma_{0+}^{#2} + 0$	$\Gamma_{0+}^{*1} + 0$	
_	0	0	0	0	0	0	0	$\Gamma_{0^{+}}^{#1}$
	0	0	0	$\frac{-3 a_0 + 2 (a_5 - 8 a_6 + 5 a_7)}{4 \sqrt{2}}$	$a_5 - 2 a_6 - a_7$	$\frac{1}{4} \left(-3 a_0 - 2 \left(a_5 + 4 a_6 - 7 a_7 \right) \right)$	0	Γ ₀ ^{#2}
_	0	0	0	$\frac{-3a_0+2(a_5-8a_6+5a_7)}{4\sqrt{2}}$	$\frac{1}{4} \left(-3 a_0 - 2 (a_5 + 4 a_6 - 7 a_7) \right)$	a_5 - 2 a_6 - a_7	0	Γ ₀ ^{#3}
	0	0	0	$\frac{1}{4} \left(-3 a_0 + 2 \left(a_5 - 8 a_6 + 5 a_7 \right) \right) = 0$	$\frac{-3a_0 + 2(a_5 - 8a_6 + 5a_7)}{4\sqrt{2}}$	$\frac{-3a_0+2(a_5-8a_6+5a_7)}{4\sqrt{2}}$	0	Γ#4 Γ ₀ +
	0	0	$\frac{a_0 k^2}{4}$	0	0	0	0	$h_{0+}^{\#1}$ $h_{0+}^{\#2}$
	0	0	0	0	0	0	0	$h_{0+}^{#2}$
	$-\frac{a_0}{2}$ - 2 a_1 + 2 a_2	0	0	0	0	0	0	Γ#1

Massive and massless spectra

	·					
	Massive particle					
? /	Pole residue:	$\left \frac{1}{4a_{13}}>0\right $				
$J^P = 1$	Polarisations:	3				
$\frac{1}{k^{\mu}}$?	Square mass:	$\frac{-3a_0+2(a_5-8a_6+5a_7)}{8a_{13}} >$				
?	Spin:	1				
	Parity:	Odd				

$ \begin{array}{c} ?\\ \hline \\ k^{\mu}\\ ? \end{array} $?	Quadratic pole Pole residue: Polarisations:	$-\frac{1}{a_0} > 0$
?		

Unitarity conditions