

## Wave operator and propagator

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

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

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

$\Delta_{3^+}^{\#1} \uparrow^{a\beta\chi}$	$\frac{1}{4}(a_0+2a_5-6a_7)$	$\Delta_{3^+}^{\#2} \uparrow^{a\beta\chi}$	$-\frac{4}{3(a_0+2a_5-6a_7)}$
Source constraints/gauge generators SO(3) irreps	$\mathcal{T}_{0^+}^{\#2}=0$	$\Delta_{0^+}^{\#3}+3\Delta_{0^+}^{\#2}=2\Delta_{0^+}^{\#4}$	$\Delta_{0^+}^{\#1}=0$
Multiplicities	1	1	1
$\Delta_{1^+a}^{\#1\alpha}+\Delta_{1^+a}^{\#5\alpha})=\Delta_{1^+a}^{\#4\alpha}+\Delta_{1^+a}^{\#3\alpha}$	3	3	1
$\mathcal{T}_{1^+a}^{\#1\alpha}=0$	3	3	1
$\Delta_{1^+a}^{\#1\alpha}=0$	3	3	1
Total constraints:	12	3	1

Quadratic (free) action

$$S_F = \int d^4x \left[ \frac{1}{24} (4a_0+2a_1-12a_6+2a_9) \Gamma_{\alpha\mu}^{\#1} \Gamma_{\beta}^{\#2} \Gamma_{\gamma}^{\#3} \Gamma_{\delta}^{\#4} \Gamma_{\epsilon}^{\#5} \Gamma_{\zeta}^{\#6} \Gamma_{\eta}^{\#7} \Gamma_{\theta}^{\#8} \Gamma_{\iota}^{\#9} \Gamma_{\kappa}^{\#10} \Gamma_{\lambda}^{\#11} \Gamma_{\mu}^{\#12} \Gamma_{\nu}^{\#13} \Gamma_{\xi}^{\#14} \Gamma_{\eta}^{\#15} \Gamma_{\theta}^{\#16} \Gamma_{\iota}^{\#17} \Gamma_{\kappa}^{\#18} \Gamma_{\lambda}^{\#19} \Gamma_{\mu}^{\#20} \Gamma_{\nu}^{\#21} \Gamma_{\xi}^{\#22} \Gamma_{\eta}^{\#23} \Gamma_{\theta}^{\#24} \Gamma_{\iota}^{\#25} \Gamma_{\kappa}^{\#26} \Gamma_{\lambda}^{\#27} \Gamma_{\mu}^{\#28} \Gamma_{\nu}^{\#29} \Gamma_{\xi}^{\#30} \Gamma_{\eta}^{\#31} \Gamma_{\theta}^{\#32} \Gamma_{\iota}^{\#33} \Gamma_{\kappa}^{\#34} \Gamma_{\lambda}^{\#35} \Gamma_{\mu}^{\#36} \Gamma_{\nu}^{\#37} \Gamma_{\xi}^{\#38} \Gamma_{\eta}^{\#39} \Gamma_{\theta}^{\#40} \Gamma_{\iota}^{\#41} \Gamma_{\kappa}^{\#42} \Gamma_{\lambda}^{\#43} \Gamma_{\mu}^{\#44} \Gamma_{\nu}^{\#45} \Gamma_{\xi}^{\#46} \Gamma_{\eta}^{\#47} \Gamma_{\theta}^{\#48} \Gamma_{\iota}^{\#49} \Gamma_{\kappa}^{\#50} \Gamma_{\lambda}^{\#51} \Gamma_{\mu}^{\#52} \Gamma_{\nu}^{\#53} \Gamma_{\xi}^{\#54} \Gamma_{\eta}^{\#55} \Gamma_{\theta}^{\#56} \Gamma_{\iota}^{\#57} \Gamma_{\kappa}^{\#58} \Gamma_{\lambda}^{\#59} \Gamma_{\mu}^{\#60} \Gamma_{\nu}^{\#61} \Gamma_{\xi}^{\#62} \Gamma_{\eta}^{\#63} \Gamma_{\theta}^{\#64} \Gamma_{\iota}^{\#65} \Gamma_{\kappa}^{\#66} \Gamma_{\lambda}^{\#67} \Gamma_{\mu}^{\#68} \Gamma_{\nu}^{\#69} \Gamma_{\xi}^{\#70} \Gamma_{\eta}^{\#71} \Gamma_{\theta}^{\#72} \Gamma_{\iota}^{\#73} \Gamma_{\kappa}^{\#74} \Gamma_{\lambda}^{\#75} \Gamma_{\mu}^{\#76} \Gamma_{\nu}^{\#77} \Gamma_{\xi}^{\#78} \Gamma_{\eta}^{\#79} \Gamma_{\theta}^{\#80} \Gamma_{\iota}^{\#81} \Gamma_{\kappa}^{\#82} \Gamma_{\lambda}^{\#83} \Gamma_{\mu}^{\#84} \Gamma_{\nu}^{\#85} \Gamma_{\xi}^{\#86} \Gamma_{\eta}^{\#87} \Gamma_{\theta}^{\#88} \Gamma_{\iota}^{\#89} \Gamma_{\kappa}^{\#90} \Gamma_{\lambda}^{\#91} \Gamma_{\mu}^{\#92} \Gamma_{\nu}^{\#93} \Gamma_{\xi}^{\#94} \Gamma_{\eta}^{\#95} \Gamma_{\theta}^{\#96} \Gamma_{\iota}^{\#97} \Gamma_{\kappa}^{\#98} \Gamma_{\lambda}^{\#99} \Gamma_{\mu}^{\#100} \Gamma_{\nu}^{\#101} \Gamma_{\xi}^{\#102} \Gamma_{\eta}^{\#103} \Gamma_{\theta}^{\#104} \Gamma_{\iota}^{\#105} \Gamma_{\kappa}^{\#106} \Gamma_{\lambda}^{\#107} \Gamma_{\mu}^{\#108} \Gamma_{\nu}^{\#109} \Gamma_{\xi}^{\#110} \Gamma_{\eta}^{\#111} \Gamma_{\theta}^{\#112} \Gamma_{\iota}^{\#113} \Gamma_{\kappa}^{\#114} \Gamma_{\lambda}^{\#115} \Gamma_{\mu}^{\#116} \Gamma_{\nu}^{\#117} \Gamma_{\xi}^{\#118} \Gamma_{\eta}^{\#119} \Gamma_{\theta}^{\#120} \Gamma_{\iota}^{\#121} \Gamma_{\kappa}^{\#122} \Gamma_{\lambda}^{\#123} \Gamma_{\mu}^{\#124} \Gamma_{\nu}^{\#125} \Gamma_{\xi}^{\#126} \Gamma_{\eta}^{\#127} \Gamma_{\theta}^{\#128} \Gamma_{\iota}^{\#129} \Gamma_{\kappa}^{\#130} \Gamma_{\lambda}^{\#131} \Gamma_{\mu}^{\#132} \Gamma_{\nu}^{\#133} \Gamma_{\xi}^{\#134} \Gamma_{\eta}^{\#135} \Gamma_{\theta}^{\#136} \Gamma_{\iota}^{\#137} \Gamma_{\kappa}^{\#138} \Gamma_{\lambda}^{\#139} \Gamma_{\mu}^{\#140} \Gamma_{\nu}^{\#141} \Gamma_{\xi}^{\#142} \Gamma_{\eta}^{\#143} \Gamma_{\theta}^{\#144} \Gamma_{\iota}^{\#145} \Gamma_{\kappa}^{\#146} \Gamma_{\lambda}^{\#147} \Gamma_{\mu}^{\#148} \Gamma_{\nu}^{\#149} \Gamma_{\xi}^{\#150} \Gamma_{\eta}^{\#151} \Gamma_{\theta}^{\#152} \Gamma_{\iota}^{\#153} \Gamma_{\kappa}^{\#154} \Gamma_{\lambda}^{\#155} \Gamma_{\mu}^{\#156} \Gamma_{\nu}^{\#157} \Gamma_{\xi}^{\#158} \Gamma_{\eta}^{\#159} \Gamma_{\theta}^{\#160} \Gamma_{\iota}^{\#161} \Gamma_{\kappa}^{\#162} \Gamma_{\lambda}^{\#163} \Gamma_{\mu}^{\#164} \Gamma_{\nu}^{\#165} \Gamma_{\xi}^{\#166} \Gamma_{\eta}^{\#167} \Gamma_{\theta}^{\#168} \Gamma_{\iota}^{\#169} \Gamma_{\kappa}^{\#170} \Gamma_{\lambda}^{\#171} \Gamma_{\mu}^{\#172} \Gamma_{\nu}^{\#173} \Gamma_{\xi}^{\#174} \Gamma_{\eta}^{\#175} \Gamma_{\theta}^{\#176} \Gamma_{\iota}^{\#177} \Gamma_{\kappa}^{\#178} \Gamma_{\lambda}^{\#179} \Gamma_{\mu}^{\#180} \Gamma_{\nu}^{\#181} \Gamma_{\xi}^{\#182} \Gamma_{\eta}^{\#183} \Gamma_{\theta}^{\#184} \Gamma_{\iota}^{\#185} \Gamma_{\kappa}^{\#186} \Gamma_{\lambda}^{\#187} \Gamma_{\mu}^{\#188} \Gamma_{\nu}^{\#189} \Gamma_{\xi}^{\#190} \Gamma_{\eta}^{\#191} \Gamma_{\theta}^{\#192} \Gamma_{\iota}^{\#193} \Gamma_{\kappa}^{\#194} \Gamma_{\lambda}^{\#195} \Gamma_{\mu}^{\#196} \Gamma_{\nu}^{\#197} \Gamma_{\xi}^{\#198} \Gamma_{\eta}^{\#199} \Gamma_{\theta}^{\#200} \Gamma_{\iota}^{\#201} \Gamma_{\kappa}^{\#202} \Gamma_{\lambda}^{\#203} \Gamma_{\mu}^{\#204} \Gamma_{\nu}^{\#205} \Gamma_{\xi}^{\#206} \Gamma_{\eta}^{\#207} \Gamma_{\theta}^{\#208} \Gamma_{\iota}^{\#209} \Gamma_{\kappa}^{\#210} \Gamma_{\lambda}^{\#211} \Gamma_{\mu}^{\#212} \Gamma_{\nu}^{\#213} \Gamma_{\xi}^{\#214} \Gamma_{\eta}^{\#215} \Gamma_{\theta}^{\#216} \Gamma_{\iota}^{\#217} \Gamma_{\kappa}^{\#218} \Gamma_{\lambda}^{\#219} \Gamma_{\mu}^{\#220} \Gamma_{\nu}^{\#221} \Gamma_{\xi}^{\#222} \Gamma_{\eta}^{\#223} \Gamma_{\theta}^{\#224} \Gamma_{\iota}^{\#225} \Gamma_{\kappa}^{\#226} \Gamma_{\lambda}^{\#227} \Gamma_{\mu}^{\#228} \Gamma_{\nu}^{\#229} \Gamma_{\xi}^{\#230} \Gamma_{\eta}^{\#231} \Gamma_{\theta}^{\#232} \Gamma_{\iota}^{\#233} \Gamma_{\kappa}^{\#234} \Gamma_{\lambda}^{\#235} \Gamma_{\mu}^{\#236} \Gamma_{\nu}^{\#237} \Gamma_{\xi}^{\#238} \Gamma_{\eta}^{\#239} \Gamma_{\theta}^{\#240} \Gamma_{\iota}^{\#241} \Gamma_{\kappa}^{\#242} \Gamma_{\lambda}^{\#243} \Gamma_{\mu}^{\#244} \Gamma_{\nu}^{\#245} \Gamma_{\xi}^{\#246} \Gamma_{\eta}^{\#247} \Gamma_{\theta}^{\#248} \Gamma_{\iota}^{\#249} \Gamma_{\kappa}^{\#250} \Gamma_{\lambda}^{\#251} \Gamma_{\mu}^{\#252} \Gamma_{\nu}^{\#253} \Gamma_{\xi}^{\#254} \Gamma_{\eta}^{\#255} \Gamma_{\theta}^{\#256} \Gamma_{\iota}^{\#257} \Gamma_{\kappa}^{\#258} \Gamma_{\lambda}^{\#259} \Gamma_{\mu}^{\#260} \Gamma_{\nu}^{\#261} \Gamma_{\xi}^{\#262} \Gamma_{\eta}^{\#263} \Gamma_{\theta}^{\#264} \Gamma_{\iota}^{\#265} \Gamma_{\kappa}^{\#266} \Gamma_{\lambda}^{\#267} \Gamma_{\mu}^{\#268} \Gamma_{\nu}^{\#269} \Gamma_{\xi}^{\#270} \Gamma_{\eta}^{\#271} \Gamma_{\theta}^{\#272} \Gamma_{\iota}^{\#273} \Gamma_{\kappa}^{\#274} \Gamma_{\lambda}^{\#275} \Gamma_{\mu}^{\#276} \Gamma_{\nu}^{\#277} \Gamma_{\xi}^{\#278} \Gamma_{\eta}^{\#279} \Gamma_{\theta}^{\#280} \Gamma_{\iota}^{\#281} \Gamma_{\kappa}^{\#282} \Gamma_{\lambda}^{\#283} \Gamma_{\mu}^{\#284} \Gamma_{\nu}^{\#285} \Gamma_{\xi}^{\#286} \Gamma_{\eta}^{\#287} \Gamma_{\theta}^{\#288} \Gamma_{\iota}^{\#289} \Gamma_{\kappa}^{\#290} \Gamma_{\lambda}^{\#291} \Gamma_{\mu}^{\#292} \Gamma_{\nu}^{\#293} \Gamma_{\xi}^{\#294} \Gamma_{\eta}^{\#295} \Gamma_{\theta}^{\#296} \Gamma_{\iota}^{\#297} \Gamma_{\kappa}^{\#298} \Gamma_{\lambda}^{\#299} \Gamma_{\mu}^{\#300} \Gamma_{\nu}^{\#301} \Gamma_{\xi}^{\#302} \Gamma_{\eta}^{\#303} \Gamma_{\theta}^{\#304} \Gamma_{\iota}^{\#305} \Gamma_{\kappa}^{\#306} \Gamma_{\lambda}^{\#307} \Gamma_{\mu}^{\#308} \Gamma_{$$