Particle spectrograph

Wave operator and propagator

$\Delta_{0^{+}}^{\#1} \qquad \Delta_{0^{+}}^{\#2} \qquad \Delta_{0^{+}}^{\#3} \qquad \Delta_{0^{+}}^{\#4} \qquad \mathcal{T}_{0^{+}}^{\#1} \qquad \mathcal{T}_{0^{+}}^{\#2} \Delta_{0^{-}}^{\#1}$	
$\Delta_{0}^{\#1} \dagger \begin{bmatrix} -\frac{2(a_{0}+25a_{1}k^{2})}{a_{0}^{2}} & \frac{10\sqrt{6}a_{1}k^{2}}{a_{0}^{2}} & -\frac{10\sqrt{\frac{2}{3}}a_{1}k^{2}}{a_{0}^{2}} & -\frac{20a_{1}k^{2}}{\sqrt{3}a_{0}^{2}} & -\frac{50i\sqrt{2}a_{1}k}{a_{0}^{2}} & 0 \end{bmatrix} \qquad 0 \qquad \Delta_{2}^{\#1}\alpha\beta \qquad \Delta_{2}^{\#2}\alpha\beta \qquad \mathcal{T}_{2}^{\#1}\alpha\beta \qquad \Delta_{2}^{\#1}\alpha\beta \qquad \Delta_{2}^{\#1}\alpha\beta \qquad \Delta_{2}^{\#2}\alpha\beta\chi \qquad \Delta_{2}^{\#2}\alpha\gamma\chi \qquad \Delta_{2}^{\#2}\alpha\gamma\chi \qquad \Delta_{2}^{\#2}\alpha\gamma\chi \qquad \Delta_{2}^{\#2}\alpha\gamma\chi \qquad \Delta_{2}^{\#2}\alpha\gamma\chi \qquad \Delta_{2}$	
$\Delta_{0}^{\#2} + \frac{10\sqrt{6} a_1 k^2}{a_0^2} - \frac{3(a_0 + 23a_1 k^2)}{4a_0^2} + \frac{5a_0 + 23a_1 k^2}{4a_0^2} - \frac{a_0 - 23a_1 k^2}{4a_0^2} - \frac{20i\sqrt{3} a_1 k}{a_0^2} + 0 = 0$ $\Delta_{2}^{\#1} + \alpha\beta + \alpha$	
$\Delta_{0}^{\#3} + \frac{10\sqrt{\frac{2}{3}}a_1k^2}{a_0^2} \left[\frac{5a_0 + 23a_1k^2}{4a_0^2} - \frac{9a_0 + 23a_1k^2}{12a_0^2} - \frac{3a_0 + 23a_1k^2}{6\sqrt{2}a_0^2} - \frac{20ia_1k}{\sqrt{3}a_0^2} \right] 0 \qquad 0 \qquad \Delta_{2}^{\#2} + \alpha\beta $	
$\Delta_{0}^{\#4} + \begin{bmatrix} -\frac{20a_{1}k^{2}}{\sqrt{3}a_{0}^{2}} & -\frac{a_{0}-23a_{1}k^{2}}{2\sqrt{2}a_{0}^{2}} & -\frac{3a_{0}+23a_{1}k^{2}}{6\sqrt{2}a_{0}^{2}} & \frac{3a_{0}-23a_{1}k^{2}}{6a_{0}^{2}} & -\frac{20i\sqrt{\frac{2}{3}}a_{1}k}{a_{0}^{2}} & 0 \end{bmatrix} 0 \Delta_{2}^{\#3} + \alpha\beta -\frac{80a_{1}k^{2}}{\sqrt{3}a_{0}^{2}} & -\frac{2\sqrt{2}a_{1}k^{2}}{3a_{0}^{2}} & -\frac{80i\sqrt{\frac{2}{3}}a_{1}k}{a_{0}^{2}} & 0 \end{bmatrix} 0 0 \Delta_{2}^{\#3} + \alpha\beta -\frac{80a_{1}k^{2}}{\sqrt{3}a_{0}^{2}} & -\frac{80i\sqrt{\frac{2}{3}}a_{1}k}{a_{0}^{2}} & -\frac{80i\sqrt{\frac{2}{3}}a_{1}k}{a_{0}^{2}} & 0 0 0 \Delta_{2}^{\#3} + \alpha\beta -\frac{80a_{1}k^{2}}{\sqrt{3}a_{0}^{2}} & -\frac{80i\sqrt{\frac{2}{3}}a_{1}k}{a_{0}^{2}} & 0 0 0 0 0 0 0 0 0 0$	
$\mathcal{T}_{0}^{\#1} \dagger \begin{array}{ c c c c c c c c c c c c c c c c c c c$	
$\mathcal{T}_{0}^{\#2} \dagger \begin{array}{ c c c c c c c c c c c c c c c c c c c$	
$\Delta_{0}^{\#1} \dagger \qquad 0 \qquad 0 \qquad 0 \qquad 0 \qquad 0 \qquad 0 \qquad -\frac{2}{a_{0}-a_{1}k^{2}} \qquad \Delta_{2}^{\#2} \dagger^{\alpha\beta\chi} \qquad 0 \qquad 0 \qquad 0 \qquad 0 \qquad \frac{4}{a_{0}-5a_{1}k^{2}}$	
$\Gamma_{0^{+}}^{\#1}$ $\Gamma_{0^{+}}^{\#2}$ $\Gamma_{0^{+}}^{\#3}$ $\Gamma_{0^{+}}^{\#4}$ $h_{0^{+}}^{\#1}$ $h_{0^{+}}^{\#2}$ $\Gamma_{0^{-}}^{\#1}$	
$\Gamma_{0}^{\#1} + \left \frac{1}{2} \left(-a_0 + 25 a_1 k^2 \right) \right 0 \left 10 \sqrt{\frac{2}{3}} a_1 k^2 \right -\frac{10 a_1 k^2}{\sqrt{3}} \qquad \qquad -\frac{25 i a_1 k^3}{2 \sqrt{2}} \qquad \qquad 0 \qquad 0$	
$\Gamma_{0}^{\#2} + 0 \qquad 0 \qquad \frac{a_0}{2} \qquad -\frac{a_0}{2\sqrt{2}} \qquad 0 \qquad 0 \qquad $ Source constraints	
$\Gamma_{0}^{#3} + 10\sqrt{\frac{2}{3}}a_1k^2$ $\frac{a_0}{2}$ $\frac{23a_1k^2}{3}$ $-\frac{3a_0+46a_1k^2}{6\sqrt{2}}$ $-\frac{10ia_1k^3}{\sqrt{3}}$ 0 0 SO(3) irreps Fundamental fields Multipliciti	es
$\Gamma_{0+}^{\#4} + \frac{10a_1k^2}{a_0^2} + \frac{a_0}{a_0^2} + \frac{3a_0 + 46a_1k^2}{a_0^2} + \frac{1}{2}(3a_0 + 23a_1k^2) + \frac{1}{2}a_1k^3 = 0$ $\Gamma_{0+}^{\#4} + \frac{10a_1k^2}{a_0^2} + \frac{a_0}{a_0^2} + \frac{3a_0 + 46a_1k^2}{a_0^2} + \frac{1}{2}(3a_0 + 23a_1k^2) + \frac{1}{2}a_1k^3 = 0$	
$\Delta_{0^{+}} + 2\Delta_{0^{+}} + 3\Delta_{0^{+}} = 0$ $\Delta_{0} + 2\Delta_{0^{+}} + 3\Delta_{0^{+}} = 0$	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Total constraints/gauge generators.	
Solution Solut	$I_{\beta\chi} + 34 a_1 \partial^{\chi} \partial^{\beta} h^{\alpha}$ $+ 8 a_1 \partial_{\beta} \Gamma^{\alpha\beta} \partial^{\beta} \partial^{\beta}$ $+ 8 a_1 \partial_{\beta} \Gamma^{\alpha\beta} \partial^{\beta} \partial^{\beta}$ $+ 8 a_1 \partial_{\alpha} \Gamma_{\beta \beta \delta} \partial^{\delta} \Gamma^{\alpha}$ $+ 8 a_1 \partial_{\alpha} \Gamma_{\beta \beta \delta} \partial^{\delta} \Gamma^{\alpha}$ $+ 8 a_1 \partial_{\alpha} \Gamma_{\delta \beta \lambda} \partial^{\delta} \Gamma^{\alpha\beta}$ $+ 8 a_1 \partial_{\beta} \Gamma_{\alpha \lambda \delta} \partial^{\delta} \Gamma^{\alpha\beta}$ $+ 8 a_1 \partial_{\beta} \Gamma_{\alpha \lambda \delta} \partial^{\delta} \Gamma^{\alpha\beta}$ $+ 8 a_1 \partial_{\beta} \Gamma_{\alpha \beta \delta} \partial^{\delta} \Gamma^{\alpha\beta}$ $+ 8 a_1 \partial_{\delta} \Gamma_{\alpha \beta \lambda} \partial^{\delta} \Gamma^{\alpha\beta}$ $+ 8 a_1 \partial_{\delta} \Gamma_{\beta \alpha \lambda} \partial^{\delta} 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Massive	and	mass	less	spectra
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** MassiveAnalysisOfSector...Null

Unitarity conditions

_	$\Delta^{\#1}_{3^-lphaeta\chi}$																								
${\mathcal T}_{1^{\bar{-}}\alpha}^{\#1}$	0	0	0	0	0	0	0	0	0	0	Δ ^{#1} †	αβχ	$\frac{2}{a_0+7}$	$a_1 k^2$											
$\Delta_{1^{^{-}}\alpha}^{\#6}$	0	0	0	0	$50 \sqrt{\frac{2}{3}} a_1 k^2$ $a_0^2 - 33 a_0 a_1 k^2$	$\frac{a_0 - 28a_1 k^2}{6a_0^2 - 198a_0 a_1 k^2}$	$\frac{\sqrt{5}}{6(a_0-33a_1k^2)}$	$\frac{7(a_0+2a_1k^2)}{3\sqrt{2}a_0(a_0-33a_1k^2)}$	$\frac{5}{3(a_0-33a_1k^2)}$	0	Γ ₃ -1 †														
						'	'	44 . 8			$h_{1}^{#1}$	0	0	0	0	0	0 (2) 0	0	0	0				
$\Delta_{1}^{\#5}{}_{\alpha}$	0	0	0	0	$\frac{10a_1 k^2 (-11a_0 + 118a_1 k^2)}{\sqrt{3} a_0^2 (a_0 - 33a_1 k^2)}$	$\frac{a_0^2 - 118 a_0 a_1 k^2 + 2560 a_1^2 k^4}{6 \sqrt{2} a_0^2 (a_0 - 33 a_1 k^2)}$	$-\frac{\sqrt{\frac{5}{2}} (a_0-82 a_1 k^2)}{6 a_0 (a_0-33 a_1 k^2)}$	1 2 1 2	$-\frac{7(a_0+2a_1k^2)}{3\sqrt{2}a_0(a_0-33a_1k^2)}$	0	$\Gamma_{1}^{\#6}$	0	0	0	$-\frac{5a_1k^2}{\sqrt{3}}$	0	$\begin{array}{c c} \frac{1}{6} (-a_0 + 20 a_1 k^2) \end{array}$	$(k^2) \left -\frac{1}{6} \sqrt{5} (a_0 - 5 a_1 k^2) \right $	$\frac{a_0 + 40a_1 k^2}{6 \sqrt{2}}$	$\frac{5}{12} (a_0 - 17 a_1 k^2)$	0				
$\Delta_{1^{-}}^{\#4}{}_{\alpha}$	0	0	0	0	$-\frac{5\sqrt{\frac{10}{3}}a_1k^2}{a_0^2-33a_0a_1k^2}$	\(\alpha\)	$\frac{1}{12a_0-396a_1k^2}$	$-\frac{\sqrt{\frac{5}{2}} (a_0-82a_1 k^2)}{6a_0 (a_0-33a_1 k^2)} \frac{17a_0}{}$	$-\frac{\sqrt{5}}{6(a_0-33a_1k^2)}$	0	$\Gamma_{1}^{\#5}$	0	0	0	$5\sqrt{\frac{3}{2}}a_1k^2$	0	$-\frac{a_0}{6\sqrt{2}}$	$-\frac{1}{6}\sqrt{\frac{5}{2}}(a_0+16a_1k)$	3 3	$\frac{a_0+40a_1k^2}{6\sqrt{2}}$	0				
					(_k ²)	41		$\frac{2}{k4}$									k ²)		$a_1 k^2$	₋ κ ²)					
$\Delta_{1^{^{-}\alpha}}^{\#3}$	0	0	0	0	$\frac{\sqrt{\frac{2}{3}} a_1 k^2 (7 a_0 - 236 a_1 k^2)}{a_0^2 (a_0 - 33 a_1 k^2)}$	$\frac{2+472 a_0 a_1 k^2+5120 a_1^2 k'}{12 a_0^2 (a_0-33 a_1 k^2)}$	$\sqrt{5} (5 a_0 - 164 a_1 k^2)$ $12 a_0 (a_0 - 33 a_1 k^2)$	$\frac{a_0^2 - 118 a_0 a_1 k^2 + 2560 a_1^2}{6 \sqrt{2} a_0^2 (a_0 - 33 a_1 k^2)}$	$\frac{a_{0-28a_{1}k^{2}}}{6a_{0}^{2}-198a_{0a_{1}k^{2}}}$	0	$\Gamma_{1}^{\#4}$	0	0	0	$-\frac{5}{2}\sqrt{\frac{5}{3}}a_1k^2$	0	$\frac{1}{6}\sqrt{5}(a_0-8a_1k^2)$	$\frac{1}{3} (a_0 + 7 a_1 k^2)$	$-\frac{1}{6} \sqrt{\frac{5}{2}} (a_0 + 16 a_1 k^2)$	$-\frac{1}{6}\sqrt{5}(a_0-5a_1)$	0	$\Gamma^{\#2}_{2^-}\alphaeta\chi$	0	0	0
					7	$\frac{-19a_0^2}{1}$		- a ₀ ² -	·						.2			$(1, k^2)$	I	₁ k ²)		$\Gamma_{2^{-}}^{\#1}$	0	0	0
$\Delta_{1}^{\#2}$	0	0	0	$\frac{2\sqrt{2}}{a_0}$	$\frac{2(a_0^2 - 30a_0a_1k^2 + 401a_1^2k^4)}{a_0^2(a_0 - 33a_1k^2)}$	$5 \sqrt{\frac{2}{3}} a_1 k^2 (7 a_0 - 236 a_1 k^2)$ $a_0^2 (a_0 - 33 a_1 k^2)$	$\frac{5\sqrt{\frac{10}{3}}a_1k^2}{a_0^2-33a_0a_1k^2}$	$\frac{10 a_1 k^2 (-11 a_0 + 118 a_1 k^2)}{\sqrt{3} a_0^2 (a_0 - 33 a_1 k^2)}$	$50 \sqrt{\frac{2}{3}} a_1 k^2$ $a_0^2 - 33 a_0 a_1 k^2$	0	$\Gamma_{1}^{\#3}$	0	0	0	$\frac{5}{2}\sqrt{3}a_1k^2$	0	- <u>40</u>	$\frac{1}{6}\sqrt{5}(a_0-8a_1)$	$-\frac{a_0}{6\sqrt{2}}$	$\frac{1}{6} (-a_0 + 20 a_1 k^2)$	0		κ ₃	m	الا ^ب
∇				12	$a_0^{2-30}a_0a_0$	$\frac{2}{3}a_1k^2$ $a_0^2(a_0^2)$	$\frac{5}{a_0^2-3}$	$\frac{z_1 k^2 (-11)}{\sqrt{3} a_0^2 (a_0^2)}$	$\frac{50 \sqrt{a_0^2-33}}{\frac{a_0^2-33}{a_0}}$,	$\Gamma_{1}^{\#2}$	0	0	0	$\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	0	$h_2^{\#1}$	$-\frac{11 i a_1 k^3}{4 \sqrt{2}}$	$\frac{5ia_1k^3}{\sqrt{3}}$	$-\frac{5ia_1k^3}{\sqrt{6}}$
α.						7					α				$(-a_0 - 3 a_1 k^2)$	_ <u> </u> 0	$\sqrt{3} a_1 k^2$	$a_1 k^2$	$a_1 k^2$	3 ^{k2}					<u></u>
$\Delta_{1^{^{-}}}^{\#1}{}_{\alpha}$	0	$\frac{2}{k^2}$ 0	0	0	2 √2 a0	0	0	0	0	0	$\Gamma_{1}^{\#1}$	0	0	0		$\frac{a_0}{2\sqrt{2}}$	$\frac{5}{2}\sqrt{3}$	$-\frac{5}{2}$	$5\sqrt{\frac{3}{2}}$	$-\frac{5a_1k^2}{\sqrt{3}}$	0	$\Gamma_{2}^{\#3}$	$\frac{5a_1k^2}{\sqrt{3}}$	$-\frac{a_1 k^2}{6 \sqrt{2}}$	$(3a_0 + a_1 k^2)$
$\Delta_1^{\#3}_+{}_{\alpha\beta}$	0	$40 \sqrt{2} a_1 k^2$ $a_0^2 - 29 a_0 a_1 k^2$	$\frac{4}{a_0-29a_1k^2}$	0	0	0	0	0	0	0				$29a_1k^2$	디 4							Γ# 2	5 4	- a - 0	$\frac{1}{12}$ (3 a_0
											$\Gamma_{1}^{\#3}$	$5a_1k^2$	0	$\frac{1}{4} (a_0 - 29 a)$	0	0	0	0	0	0	0	$\Gamma_{2}^{\#2}$	$a_1 k^2$	$(a_0 + a_1 k^2)$	
$\Delta_1^{\#_+^2} _{\alpha\beta}$	$\frac{2\sqrt{2}}{a_0}$	$\frac{a_1 k^2 - 35}{0^{-29} a_1 k^2}$	$\frac{40 \sqrt{2} a_1 k^2}{a_0^2 - 29 a_0 a_1 k^2}$	0	0	0	0	0	0	0	$\Gamma_{1}^{\#2}$	$-\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	0	0	0	0	Γ#2 2+	$-5\sqrt{\frac{2}{3}}$	(-3 <i>c</i>	$-\frac{a_1 k^2}{6 \sqrt{2}}$
	-	$\frac{2(a_0^2-14a_0a_1k^2-35a_1^2k^4)}{a_0^2(a_0-29a_1k^2)}$	$\frac{40}{a_0^2-2}$								$\Gamma^{\#1}_{1}$	$\frac{1}{4} \left(-a_0 - 15 a_1 k^2 \right) \Big -$	$-\frac{a_0}{2\sqrt{2}}$	$5a_1k^2$	0	0	0	0	0	0	0	$\Gamma_{2}^{\#1}_{+\alpha\beta}$	$11 a_1 k^2$	$-5\sqrt{\frac{2}{3}}a_1k^2$ $\frac{1}{6}$	$\frac{5a_1k^2}{\sqrt{3}}$
$\Delta_1^{\#1}{}_+\alpha\beta$	0	$\frac{2\sqrt{2}}{a_0}$	0	0	0	0	0	0	0	0	-		1,,	5 (Γ# 2	$\frac{1}{4} (a_0 + 11)$	-5	56
	$\Delta_1^{\#_1} +^{\alpha\beta}$	$\Delta_1^{\#2} \dagger^{\alpha \beta}$	$\Delta_{1}^{\#3} + ^{lphaeta}$	$\Delta_{1^{\bar{-}}}^{\#1} +^{\alpha}$	$\Delta_{1}^{\#2} +^{lpha}$	$\Delta_{1}^{\#3} +^{lpha}$	$\Delta_{1^{-}}^{\#4} +^{\alpha}$	$\Delta_{1}^{\#5} +^{\alpha}$	$\Delta_{1}^{\#6} +^{\alpha}$	${\mathcal T}_{1^{\bar{-}}}^{\#1} +^{\alpha}$		$\Gamma_1^{\#1} + ^{\alpha\beta}$	$\Gamma_1^{#2} + \alpha \beta$	$\Gamma_{1}^{#3} + \alpha \beta$	$\Gamma_{1}^{\#1} +^{\alpha}$	$\Gamma_1^{\#2} + \alpha$	$\Gamma_1^{#3} + \alpha$	$\Gamma_{1}^{\#4} + ^{\alpha}$	$\Gamma_1^{\#5} +^{\alpha}$	$L_{1}^{\#_{\overline{e}}} + \alpha$	$h_{1}^{\#1} +^{lpha}$		$\Gamma_2^{#1} + \alpha \beta$	$\Gamma_{2}^{#2} + \alpha \beta$	$\Gamma_{2}^{#3} + \alpha \beta$