Particle spectrograph

Wave operator and propagator

xAct`PSALTer`Private`GraphicsCollage[

	$\omega_{0^{+}}^{\#1} + \frac{\alpha_{0}}{2}$ $\begin{cases} f_{0^{+}}^{\#1} + \\ f_{0^{+}}^{\#2} + \\ \omega_{0^{-}}^{\#1} + \end{cases}$	$\frac{\frac{0}{2} + \beta_2 + (\alpha_4 + \alpha_6) k^2}{\frac{i(\alpha_0 + 2\beta_2) k}{\sqrt{2}}} - \frac{\frac{i(\alpha_0 + 2\beta_2) k}{\sqrt{2}}}{0}$ $\frac{2 \beta_2 k^2}{0}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$,								
		$\omega_{1^{+}lphaeta}^{\sharp1}$	$\omega_{1^{+}lphaeta}^{\#2}$	$f_{1^{+}\alpha\beta}^{\#1}$	$\omega_{1}^{\#1}{}_{lpha}$	$\omega_{1}^{\#2}{}_{lpha}$	$f_{1}^{\#1}{}_{\alpha}$	$f_{1-\alpha}^{\#2}$				
Join[$\omega_{1}^{\#1}\dagger^{lphaeta}$	$\frac{\alpha_0}{4} + \frac{1}{3} (\beta_1 + 8 \beta_3) + (\alpha_2 + \alpha_5) k^2$	$\frac{3\alpha_0-4\beta_1+16\beta_3}{6\sqrt{2}}$	$\frac{i(3\alpha_0-4\beta_1+16\beta_3)k}{6\sqrt{2}}$	0	0	0	0				
	$\omega_{1}^{\#2} \dagger^{\alpha\beta}$	$\frac{3 \alpha_0 - 4 \beta_1 + 16 \beta_3}{6 \sqrt{2}}$	$\frac{2}{3}\left(\beta_1+2\beta_3\right)$	$\frac{2}{3}i(\beta_1+2\beta_3)k$	0	0	0	0		$\omega_{2^{+}lphaeta}^{\sharp1}$	$f_{2^{+}\alpha\beta}^{\#1}$	$\omega_{2^{-}lphaeta\chi}^{\sharp1}$
	$f_{1+}^{\#1}\dagger^{\alpha\beta}$	$-\frac{i(3\alpha_0-4\beta_1+16\beta_3)k}{6\sqrt{2}}$	$-\frac{2}{3}\bar{i}\left(\beta_1+2\beta_3\right)k$	$\frac{2}{3}(\beta_1 + 2\beta_3)k^2$	0	0	0	0	$\omega_{2}^{#1}\dagger^{lphaeta}$	$-\frac{\alpha_0}{4}+\beta_1+(\alpha_1+\alpha_4)k$	$\frac{i(\alpha_0-4\beta_1)k}{2\sqrt{2}}$	0
	$\omega_{1}^{#1}\dagger^{lpha}$	0	0	0	$\frac{\alpha_0}{4} + \frac{1}{3} (\beta_1 + 2 \beta_2) + (\alpha_4 + \alpha_5) k^2$	$-\frac{3 \alpha_0 - 4 \beta_1 + 4 \beta_2}{6 \sqrt{2}}$	0	$-\frac{1}{6}i(3\alpha_0-4\beta_1+4\beta_2)k$	$f_{2+}^{\#1}\dagger^{\alpha\beta}$	$-\frac{i(\alpha_0-4\beta_1)k}{2\sqrt{2}}$	$2 \beta_1 k^2$	0
	$\omega_{1}^{#2} \dagger^{\alpha}$	0	0	0	$-\frac{3 \alpha_0 - 4 \beta_1 + 4 \beta_2}{6 \sqrt{2}}$	$\frac{1}{3}$ (2 $\beta_1 + \beta_2$)	0	$\frac{1}{3} i \sqrt{2} (2 \beta_1 + \beta_2) k$	$\omega_2^{#1} \dagger^{\alpha\beta\chi}$	0	0	$-\frac{\alpha_0}{4} + \beta_1 + (\alpha_1 + \alpha_2) k^2$
	$f_{1}^{#1} \dagger^{\alpha}$	0	0	0	0	0	0	0				
	$f_{1}^{#2} \dagger^{\alpha}$	0	0	0	$\frac{1}{6}$ i (3 α_0 - 4 β_1 + 4 β_2) k	$-\frac{1}{3}i\sqrt{2}(2\beta_1+\beta_2)k$	0	$\frac{2}{3} (2 \beta_1 + \beta_2) k^2$				

 $\{AspectRatio \rightarrow Automatic\}\]$, $\[Join[1863, \{AspectRatio \rightarrow Automatic\}, \{Null, Null\}, \{500\}]\]$

Massive and massless spectra

xAct`PSALTer`Private`GraphicsCollage[{Null, Null}, Join[1863, {AspectRatio → Automatic}, {Null, Null}, {500}]]

Unitarity conditions