

Particle spectrograph

Wave operator and propagator

xAct`PSALTER`Private`GraphicsCollage[

$\omega_{0+}^{\#1}$ $f_{0+}^{\#1}$ $f_{0+}^{\#2}$ $\omega_{0-}^{\#1}$

$\omega_{0+}^{\#1} \dagger$	$6 k^2 r_3$	0	0	0
$f_{0+}^{\#1} \dagger$	0	0	0	0
$f_{0+}^{\#2} \dagger$	0	0	0	0
$\omega_{0-}^{\#1} \dagger$	0	0	0	$k^2 r_2 + t_2$

$\omega_{1+}^{\#1} \dagger^{\alpha\beta}$ $\omega_{1+}^{\#2} \dagger^{\alpha\beta}$ $f_{1+}^{\#1} \dagger^{\alpha\beta}$ $\omega_{1-}^{\#1} \dagger^{\alpha}$ $\omega_{1-}^{\#2} \dagger^{\alpha}$ $f_{1-}^{\#1} \dagger^{\alpha}$ $f_{1-}^{\#2} \dagger^{\alpha}$

$\omega_{1+}^{\#1} \dagger^{\alpha\beta}$	$\frac{2 t_2}{3}$	$\frac{\sqrt{2} t_2}{3}$	$\frac{1}{3} i \sqrt{2} k t_2$	0	0	0	0
$\omega_{1+}^{\#2} \dagger^{\alpha\beta}$	$\frac{\sqrt{2} t_2}{3}$	$\frac{t_2}{3}$	$\frac{i k t_2}{3}$	0	0	0	0
$f_{1+}^{\#1} \dagger^{\alpha\beta}$	$-\frac{1}{3} i \sqrt{2} k t_2$	$-\frac{1}{3} i k t_2$	$\frac{k^2 t_2}{3}$	0	0	0	0
$\omega_{1-}^{\#1} \dagger^{\alpha}$	0	0	0	0	0	0	0
$\omega_{1-}^{\#2} \dagger^{\alpha}$	0	0	0	0	0	0	0
$f_{1-}^{\#1} \dagger^{\alpha}$	0	0	0	0	0	0	0
$f_{1-}^{\#2} \dagger^{\alpha}$	0	0	0	0	0	0	0

$\omega_{2+}^{\#1} \dagger^{\alpha\beta}$ $f_{2+}^{\#1} \dagger^{\alpha\beta}$ $\omega_{2-}^{\#1} \dagger^{\alpha\beta\chi}$

$\omega_{2+}^{\#1} \dagger^{\alpha\beta}$	0	0	0
$f_{2+}^{\#1} \dagger^{\alpha\beta}$	0	0	0
$\omega_{2-}^{\#1} \dagger^{\alpha\beta\chi}$	0	0	0

{AspectRatio → Automatic}],

Join[548, {AspectRatio → Automatic}, {Null, Null}, {500}]]

Massive and massless spectra

xAct`PSALTER`Private`GraphicsCollage[{Null, Null},

Join[548, {AspectRatio → Automatic}, {Null, Null}, {500}]]

Unitarity conditions

