

$$\left\{ \begin{array}{c} \omega_{0+}^{\#1} \dagger \\ f_{0+}^{\#1} \dagger \\ f_{0+}^{\#2} \dagger \\ \omega_{0-}^{\#1} \dagger \end{array} \right. \begin{array}{|c|c|c|c|} \hline \omega_{0+}^{\#1} & f_{0+}^{\#1} & f_{0+}^{\#2} & \omega_{0-}^{\#1} \\ \hline 6k^2r_3 & 0 & 0 & 0 \\ \hline 0 & 0 & 0 & 0 \\ \hline 0 & 0 & 0 & 0 \\ \hline 0 & 0 & 0 & k^2r_2+t_2 \\ \hline \end{array} \right. ,$$

$$\text{Join} \left[\begin{array}{c} \omega_{1+}^{\#1} \dagger^{\alpha\beta} \\ \omega_{1+}^{\#2} \dagger^{\alpha\beta} \\ f_{1+}^{\#1} \dagger^{\alpha\beta} \\ \omega_{1-}^{\#1} \dagger^{\alpha} \\ \omega_{1-}^{\#2} \dagger^{\alpha} \\ f_{1-}^{\#1} \dagger^{\alpha} \\ f_{1-}^{\#2} \dagger^{\alpha} \end{array} \begin{array}{|c|c|c|c|c|c|c|c|} \hline \omega_{1+}^{\#1}{}_{\alpha\beta} & \omega_{1+}^{\#2}{}_{\alpha\beta} & f_{1+}^{\#1}{}_{\alpha\beta} & \omega_{1-}^{\#1}{}_{\alpha} & \omega_{1-}^{\#2}{}_{\alpha} & f_{1-}^{\#1}{}_{\alpha} & f_{1-}^{\#2}{}_{\alpha} \\ \hline \frac{2t_2}{3} & \frac{\sqrt{2}t_2}{3} & \frac{1}{3}i\sqrt{2}kt_2 & 0 & 0 & 0 & 0 \\ \hline \frac{\sqrt{2}t_2}{3} & \frac{t_2}{3} & \frac{ikt_2}{3} & 0 & 0 & 0 & 0 \\ \hline -\frac{1}{3}i\sqrt{2}kt_2 & -\frac{1}{3}ikt_2 & \frac{k^2t_2}{3} & 0 & 0 & 0 & 0 \\ \hline 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \hline 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \hline 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \hline 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \hline \end{array} \right. ,$$

$$\left\{ \begin{array}{c} \omega_{2+}^{\#1} \dagger^{\alpha\beta} \\ f_{2+}^{\#1} \dagger^{\alpha\beta} \\ \omega_{2-}^{\#1} \dagger^{\alpha\beta\chi} \end{array} \begin{array}{|c|c|c|} \hline \omega_{2+}^{\#1}{}_{\alpha\beta} & f_{2+}^{\#1}{}_{\alpha\beta} & \omega_{2-}^{\#1}{}_{\alpha\beta\chi} \\ \hline 0 & 0 & 0 \\ \hline 0 & 0 & 0 \\ \hline 0 & 0 & 0 \\ \hline \end{array} \right. \}$$

```
{AspectRatio → Automatic}],  
Join[566, {AspectRatio → Automatic}, {Null, Null}, {500}]]  
  
xAct`PSALter`Private`GraphicsCollage[{Null, Null},  
Join[566, {AspectRatio → Automatic}, {Null, Null}, {500}]]
```

Unitarity conditions