

$$\begin{array}{ccccc}
\begin{array}{c} \overline{n=0} \\ m=-4 \end{array} & \begin{array}{c} \overline{n=1} \\ m=-2 \end{array} & \begin{array}{c} \overline{n=2} \\ m=0 \end{array} & \begin{array}{c} \overline{n=1} \\ m=2 \end{array} & \begin{array}{c} \overline{n=0} \\ m=4 \end{array} & \begin{array}{c} \overline{} \\ \alpha=(0,4) \end{array} & \begin{array}{c} \overline{} \\ \alpha=(1,3) \end{array} & \begin{array}{c} \overline{} \\ \alpha=(2,2) \end{array} & \begin{array}{c} \overline{} \\ \alpha=(3,1) \end{array} & \begin{array}{c} \overline{} \\ \alpha=(4,0) \end{array} \\
\\
\begin{array}{c} \overline{n=0} \\ m=-3 \end{array} & \begin{array}{c} \overline{n=1} \\ m=-1 \end{array} & \begin{array}{c} \overline{n=1} \\ m=1 \end{array} & \begin{array}{c} \overline{n=0} \\ m=3 \end{array} & & \begin{array}{c} \overline{} \\ \alpha=(0,3) \end{array} & \begin{array}{c} \overline{} \\ \alpha=(1,2) \end{array} & \begin{array}{c} \overline{} \\ \alpha=(2,1) \end{array} & \begin{array}{c} \overline{} \\ \alpha=(3,0) \end{array} & \left. \vphantom{\begin{array}{c} \overline{} \\ \alpha=(0,3) \end{array}} \right\} \text{shell } \mathcal{S}_3 \\
\\
\boxed{\begin{array}{ccc} \overline{n=0} & \overline{n=1} & \overline{n=0} \\ m=-2 & m=0 & m=2 \end{array}} & \text{Unitarily equivalent} & \boxed{\begin{array}{ccc} \overline{} & \overline{} & \overline{} \\ \alpha=(0,2) & \alpha=(1,1) & \alpha=(2,0) \end{array}} & & & & & & & \\
\\
\begin{array}{c} \overline{n=0} \\ m=-1 \end{array} & \begin{array}{c} \overline{n=0} \\ m=1 \end{array} & & & & \begin{array}{c} \overline{} \\ \alpha=(0,1) \end{array} & \begin{array}{c} \overline{} \\ \alpha=(1,0) \end{array} & & & \\
\\
\begin{array}{c} \overline{n=0} \\ m=0 \end{array} & & & & & \begin{array}{c} \overline{} \\ \alpha=(0,0) \end{array} & & & &
\end{array}$$