

$$\begin{array}{c}
 C \\
 \downarrow \scriptstyle \rho^{-1} \\
 C \otimes I \xrightarrow{\eta} C \otimes (C^* \otimes C) \xrightarrow{\alpha} (C \otimes C^*) \otimes C \xrightarrow{\epsilon} I \otimes C \\
 \uparrow \scriptstyle \lambda \\
 C
 \end{array}$$

A commutative diagram showing the relationship between various tensor products of a C*-algebra C and its dual C^* . The diagram consists of two rows of objects connected by vertical arrows. The top row has two copies of C connected by a double horizontal line, indicating an identity. The bottom row shows a sequence of maps: $C \otimes I \xrightarrow{\eta} C \otimes (C^* \otimes C) \xrightarrow{\alpha} (C \otimes C^*) \otimes C \xrightarrow{\epsilon} I \otimes C$. A vertical arrow labeled ρ^{-1} points from the first C in the top row to the first C in the bottom row. Another vertical arrow labeled λ points from the last C in the bottom row to the second C in the top row.