

$$\begin{array}{ccccc}
 A \otimes (B \otimes (C \otimes D)) & \xleftarrow{\alpha^{-1}} & (A \otimes B) \otimes (C \otimes D) & \xrightarrow{\alpha} & ((A \otimes B) \otimes C) \otimes D \\
 \downarrow 1 \otimes \alpha & & & & \downarrow \alpha^{-1} \otimes 1 \\
 A \otimes ((B \otimes C) \otimes D) & \xrightarrow{\alpha} & (A \otimes (B \otimes C)) \otimes D & &
 \end{array}$$