

$$\begin{array}{ccccc}
A \otimes (B \otimes (C \otimes D)) & \xrightarrow{\alpha_{A,B,C \otimes D}} & (A \otimes B) \otimes (C \otimes D) & \xrightarrow{\alpha_{A \otimes B,C,D}} & ((A \otimes B) \otimes C) \otimes D \\
1_A \otimes \alpha_{B,C,D} \downarrow & & & & \uparrow \alpha_{A,B,C} \otimes 1_D \\
A \otimes ((B \otimes C) \otimes D) & \xrightarrow{\alpha_{A,B \otimes C,D}} & & & (A \otimes (B \otimes C)) \otimes D
\end{array}$$