

$$\begin{array}{ccccc}
\mathrm{Hom}(A, B) \otimes (\mathrm{Hom}(B, C) \otimes \mathrm{Hom}(C, D)) & \xrightarrow{\alpha} & (\mathrm{Hom}(A, B) \otimes \mathrm{Hom}(B, C)) \otimes \mathrm{Hom}(C, D) \\
\downarrow 1 \otimes \circ_{B, C, D} & & \downarrow \circ_{A, B, C} \otimes 1 \\
\mathrm{Hom}(A, B) \otimes \mathrm{Hom}(B, D) & \xrightarrow{\circ_{A, B, D}} \mathrm{Hom}(A, D) \xleftarrow{\circ_{B, C, D}} & \mathrm{Hom}(A, C) \otimes \mathrm{Hom}(C, D)
\end{array}$$