

$$\begin{array}{ccc}
 M * (N * (P * A)) & \xrightarrow{\kappa_{M,N,P * A}} & (M \otimes N) * (P * A) \xrightarrow{\kappa_{M \otimes N, P, A}} ((M \otimes N) \otimes P) * A \\
 \downarrow 1_M * \kappa_{N,P,A} & & \uparrow \alpha_{M,N,P} * 1_A \\
 M * ((N \otimes P) * A) & \xrightarrow{\kappa_{M, N \otimes P, A}} & (M \otimes (N \otimes P)) * A
 \end{array}$$