

$$\begin{array}{ccc}
X_n \otimes \underbrace{(X_1 \otimes \cdots \otimes \overbrace{X_r}^{k\text{-th spot}} \otimes \cdots \otimes X_1)}_{n \text{ factors}} \otimes \underbrace{(X_1 \otimes \cdots \otimes \overbrace{X_s}^{\ell\text{-th spot}} \otimes \cdots \otimes X_1)}_{r \text{ factor}} & \xrightarrow{\sim} & X_n \otimes \underbrace{(X_1 \otimes \cdots \otimes \overbrace{(X_r \otimes (X_1 \otimes \cdots \otimes X_s \otimes \cdots \otimes X_1))}^{k\text{-th spot}})}_{n \text{ factors}} \otimes \cdots \otimes X_1 \\
\downarrow \mu_{1,\dots,r,\dots,1} \otimes (1_{X_1} \otimes \cdots \otimes 1_{X_r} \otimes \cdots \otimes 1_{X_1}) & & \downarrow 1_{X_n} \otimes 1_{X_1} \otimes \cdots \otimes 1_{X_r} \otimes \cdots \otimes 1_{X_1} \\
X_{n+r-1} \otimes (X_1 \otimes \cdots \otimes X_s \otimes \cdots \otimes X_1) & & X_n \otimes (X_1 \otimes \cdots \otimes X_{r+s-1} \otimes \cdots \otimes X_1) \\
\searrow \mu_{1,1,\dots,s,\dots,1} & & \swarrow \mu_{1,1,\dots,r+s-1,\dots,1} \\
& X_{n+r+s-2} &
\end{array}$$