

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