$$X^{p} \otimes Y^{q} \xrightarrow{\varepsilon(p,q)\cdot\tau} Y^{q} \otimes X^{p}$$

$$\downarrow^{d} \qquad \qquad \downarrow^{d}$$

$$X^{p+1} \otimes Y^{q} \xrightarrow{\varepsilon(p+1,q)\cdot\tau} Y^{q} \otimes X^{p+1}$$

$$\oplus \qquad \oplus \qquad \oplus$$

 $\overrightarrow{\varepsilon(p,q+1)\cdot\tau}$ $Y^{q+1}\otimes X^p$

 $X^p \otimes Y^{q+1}$

 $\varepsilon(p,q) \cdot \tau$