

$$\begin{array}{c} \mathcal{W} \times \mathcal{W} \\ (u_1, v_1) \xrightarrow{(\gamma, \beta)} (u_2, v_2) \end{array}$$

maps to

$$\begin{array}{c} \mathcal{W} \\ u \otimes v \xrightarrow{\gamma \otimes \beta} u' \otimes v' \end{array}$$