

$$K \otimes \Pi N_{\bullet} \longrightarrow M \otimes \Pi N_{\bullet} \qquad (r_1)$$

$$\begin{array}{ccc} \downarrow \tau & & \downarrow \theta \\ \Pi(K \otimes N_{\bullet}) & \longrightarrow & \Pi(M \otimes N_{\bullet}) \qquad (r_2) \end{array}$$