

$$\begin{array}{ccccc}
 A_1 & \xrightarrow{e_1} & A_1 \oplus A_2 & \xrightarrow{p_2} & A_2 \\
 \parallel & & \downarrow m & & \downarrow x_2 \\
 A_1 & \dashrightarrow^{m_1} & M & \dashrightarrow^{\lambda_2} & B_2 \\
 & & \downarrow k & & \downarrow y_2 \\
 & & C & \xlongequal{\quad} & C \\
 & & \downarrow \begin{pmatrix} 1 \\ 1 \end{pmatrix}^* (\delta_1 \oplus \delta_2) & & 
 \end{array}$$

$$\begin{array}{ccccc}
 A_2 & \xlongequal{\quad} & A_2 & & \\
 e_2 \downarrow & & m_2 \downarrow & & \\
 A_1 \oplus A_2 & \xrightarrow{m} & M & \xrightarrow{k} & C \xrightarrow{\begin{pmatrix} 1 \\ 1 \end{pmatrix}^* (\delta_1 \oplus \delta_2)} \\
 p_1 \downarrow & & \lambda_1 \downarrow & & \parallel \\
 A_1 & \dashrightarrow^{x_1} & B_1 & \dashrightarrow^{y_1} & C
 \end{array}$$