

$$\begin{array}{ccccc}
 A_1 & \overset{f_A}{\dashrightarrow} & A_2 & \overset{g_A}{\dashrightarrow} & A_3 & \xrightarrow{\varepsilon_A} \\
 \downarrow i_1 & & \downarrow \lambda & & \parallel & \\
 B_1 & \longrightarrow & E & \xrightarrow{\mu} & A_3 & \\
 \downarrow p_1 & & \downarrow & & & \\
 C_1 & \xlongequal{\quad} & C_1 & & & \\
 & & \downarrow & & & 
 \end{array}$$