

$$\begin{array}{ccccccc}
 X & \xrightarrow[\textcolor{blue}{i}]{\text{TCofib}} & Y & \longrightarrow & S & \longrightarrow & \\
 \parallel & & \textcolor{blue}{\downarrow} & & \textcolor{black}{\downarrow} & & \\
 \textcolor{red}{X} & \xrightarrow{\textcolor{red}{}} & V_Y & \xrightarrow{\textcolor{red}{}} & E & \xrightarrow{\textcolor{red}{\delta_X}} & \\
 & & \textcolor{blue}{\downarrow} & & \textcolor{black}{\downarrow}^{\lambda} & & \\
 & & U_Y & = & U_Y & & \\
 & & \textcolor{blue}{\downarrow}^{\delta_Y} & & \textcolor{black}{\downarrow} & &
 \end{array}$$

$$\begin{array}{ccccccc}
 \textcolor{red}{X} & \xrightarrow{\textcolor{red}{}} & V_Y & \xrightarrow{\textcolor{red}{}} & E & \xrightarrow{\textcolor{red}{\delta_X}} & \\
 \downarrow^i & & \parallel^{1_{V_Y}} & & \downarrow^{\lambda} & & \\
 Y & \xrightarrow{\textcolor{blue}{}} & V_Y & \xrightarrow{\textcolor{blue}{}} & U_Y & \xrightarrow{\textcolor{blue}{\delta_Y}} &
 \end{array}$$