

$$\begin{array}{ccccccc}
 X & \xrightarrow{f} & Y & \xrightarrow{g} & Z & \xrightarrow{\eta} & \\
 \parallel & & & & \nearrow^{s, \text{TFib}} & \nwarrow_{t, \text{TFib}} & \\
 & & & & M & & N \\
 & & & & \searrow_{a} & \swarrow_{b} & \\
 X & \xrightarrow{v_X} & V_X & \xrightarrow{u_X} & U_X & \xrightarrow{\delta_X} & 
 \end{array}$$