

$$\begin{array}{ccc}
 X \times \{0, 1\} & \xrightarrow{\varphi_0 \sqcup \varphi_1} & Y \\
 \downarrow i & \nearrow \bar{h} & \downarrow f \\
 X \times [0, 1] & \xrightarrow{h} & Z
 \end{array}$$