$$X_{0} \xrightarrow{f_{1}} X_{1}$$

$$\downarrow^{\alpha} \qquad \qquad \parallel$$

$$\Sigma^{-1}(Y) \longrightarrow X_{1} \xrightarrow{f_{2}} X_{2} \longrightarrow Y$$

$$\parallel \qquad \qquad \downarrow^{\beta}$$

$$X_{2} \xrightarrow{f_{3}} X_{3}$$