

$$\begin{array}{ccccc}
0 & \longrightarrow & ? & \longrightarrow & 0 \\
\downarrow & & \downarrow & & \downarrow \\
\Pi_{i \geq 0} \ker[(\pi_i)_{S \sqcup J}] & \longrightarrow & \Pi_{i \geq 0} (S \sqcup J, X_i)_{\mathcal{T}} & \xrightarrow{(\pi_i)_{S \sqcup J}} & \Pi_{i \geq 0} F(S \sqcup J) \\
\downarrow 1 - \Sigma 0 & & \downarrow 1 - \Sigma (\phi_i)_* & & \downarrow 1 - \Sigma 1 \\
\Pi_{i \geq 0} \ker[(\pi_i)_{S \sqcup J}] & \longrightarrow & \Pi_{i \geq 0} (S \sqcup J, X_{i+1})_{\mathcal{T}} & \xrightarrow{(\pi_{i+1})_{S \sqcup J}} & \Pi_{i \geq 0} F(S \sqcup J) \\
\downarrow & & \downarrow & & \downarrow \\
0 & \longrightarrow & ? & \longrightarrow & F(S \sqcup J)
\end{array}$$