$$0 \longrightarrow K^{\coprod(K,M_{\gamma})} \xrightarrow{i^{\coprod}} P^{\coprod(K,M_{\gamma})} \xrightarrow{p^{\coprod}} S^{\coprod(K,M_{\gamma})} \longrightarrow 0$$

$$\downarrow \qquad \qquad \downarrow \qquad \qquad \parallel$$

$$0 \longrightarrow M_{\gamma} \xrightarrow{} M_{\gamma+1} \longrightarrow S^{\coprod(K,M_{\gamma})} \longrightarrow 0$$