$$\begin{tikzcd}
 & 0 \arrow[r] & K'_{m+1} \arrow[rr] \arrow[d] & & K_{m+1} \arrow[rr] \arrow[d] & & K''_{m+1} \arrow[r] \arrow[d] & 0 \\
 & 0 \arrow[r] & P'_{m+1} \arrow[rr] \arrow[dl] \arrow[dd, "d'_{m+1}"] & & P_{m+1} \arrow[rr] \arrow[dl] \arrow[dd, dashed] & & P''_{m+1} \arrow[r] \arrow[dl] \arrow[dd, "d''_{m+1}"] & 0 \\
0 \arrow[r] & K'_m \arrow[rr] \arrow[dr] & & K_m \arrow[rr] \arrow[dr] & & K''_m \arrow[r] \arrow[dr] & 0 & \\
 & \arrow[r] & P'_m \arrow[rr] \arrow[d] & & P_m \arrow[rr] \arrow[d] & & P''_m \arrow[r] \arrow[d] & 0 \\
 & & {} & & {} & & {} &
\end{tikzcd}$$