

$$\begin{array}{ccccccc}
 X & \xrightarrow{a_1} & Y_2 & \xrightarrow{wb_2} & W & \xrightarrow{\quad} & X[1] \\
 \downarrow b_1 & & \downarrow b_2 & & \parallel & & \downarrow \\
 Y_1 & \xrightarrow{a_2} & Z & \xrightarrow{\quad w \quad} & W & \xrightarrow{\quad} & Y_1[1]
 \end{array}$$

$$\begin{array}{ccccccc}
 X & \xrightarrow{\begin{pmatrix} a_1 \\ b_1 \end{pmatrix}} & Y_2 \oplus Y_1 & \xrightarrow{(b_2, -a_1)} & Z & \xrightarrow{\quad} & X[1] \\
 \parallel & & \downarrow \begin{pmatrix} 1 \\ 0 \end{pmatrix} & & \downarrow \begin{matrix} \text{dashed} \\ w \end{matrix} & & \parallel \\
 X & \xrightarrow{a_1} & Y_2 & \xrightarrow{wb_2} & W & \xrightarrow{\quad} & X[1] \\
 & & \downarrow 0 & & \downarrow \text{dashed} & & \downarrow \begin{pmatrix} a_1[1] \\ b_1[1] \end{pmatrix} \\
 & & Y_1[1] & \xlongequal{\quad} & Y_1[1] & \xrightarrow{\begin{pmatrix} 0 \\ 1 \end{pmatrix}} & Y_2[1] \oplus Y_1[1] \\
 & & \downarrow & & \downarrow \text{dashed} & & \\
 & & Y_2[1] \oplus Y_1[1] & \xrightarrow{\quad} & Z[1] & &
 \end{array}$$