

c_2 c_3

$$S[-1] \quad \text{---} \quad S[-1]$$

 r_1

$$\begin{array}{ccccccc} & & & \textcolor{red}{\downarrow} q & & \downarrow \alpha & \\ X & \xrightarrow{u} & Y & \xrightarrow{v} & \textcolor{green}{W} & \xrightarrow{w} & X[1] \end{array}$$

 r_2

$$\begin{array}{ccccccc} & & \textcolor{black}{\downarrow} & & \textcolor{green}{\downarrow} \beta & & \textcolor{black}{\downarrow} \\ \textcolor{green}{X} & \xrightarrow{\textcolor{green}{x}} & \textcolor{green}{Z} & \xrightarrow{\textcolor{green}{y}} & \textcolor{green}{R} & \xrightarrow{z} & \textcolor{black}{\downarrow} \\ & & \textcolor{black}{\downarrow} & & \downarrow \gamma & & \textcolor{red}{\downarrow} u[1] \\ & & S & \text{---} & S & \textcolor{red}{\dashrightarrow}^{-q[1]} & Y[1] \end{array}$$