

$$\begin{array}{ccccc}
 & & \cdot \, / I(X) & & \\
 & \nearrow & & \searrow & \\
 A(A^n) & \xrightarrow{\cdot \, / I(Y)} & A(Y) & \xrightarrow{\cdot \, / I(X)} & A(X)
 \end{array}$$