

$$\begin{array}{ccccccc}
 & \tilde{u}^{k-1} & \xrightarrow{\sigma_{v_1}} & \tilde{u}^k = \tilde{u}^{k-1}v_1 & \xrightarrow{\sigma_{v_2}} & \tilde{u}^{k+1} = \tilde{u}^kv_2 & \\
 & \downarrow h & & \downarrow h & & \downarrow h & \\
 \dots & & & & & & \dots \\
 x_{k-1} = h(\tilde{u}^{k-1}) & \xrightarrow{g(v_1, \cdot)} & x_k = h(\tilde{u}^k) & \xrightarrow{g(v_2, \cdot)} & x_{k+1} = h(\tilde{u}^{k+1}) & & \\
 \underbrace{\hspace{1.5cm}} & & \vdots & & \vdots & & \vdots \\
 H(\tilde{u}^{k-1}) & & & & & & \\
 \underbrace{\hspace{2.5cm}} & & \vdots & & \vdots & & \vdots \\
 H(\tilde{u}^k) & & & & & & \\
 \underbrace{\hspace{4.5cm}} & & \vdots & & \vdots & & \vdots \\
 H(\tilde{u}^{k+1}) & & & & & &
 \end{array}$$