

$$\begin{array}{ccccc}
& \downarrow & & \downarrow & \\
\begin{array}{c} \longrightarrow \\ \longleftarrow \end{array} \{\phi_n^{k+1,t-1}(x)\}_{n=0}^\infty & \xrightleftharpoons[\{\tilde{e}_n^{k+1,t-1}\}_{n=1}^\infty]{\{\tilde{q}_n^{k+1,t-1}\}_{n=0}^\infty, s^{(t-1)}} & \{\phi_n^{k+1,t}(x)\}_{n=0}^\infty & \xrightleftharpoons[\{\tilde{e}_n^{k+1,t}\}_{n=1}^\infty]{\{\tilde{q}_n^{k+1,t}\}_{n=0}^\infty, s^{(t)}} & \{\phi_n^{k+1,t+1}(x)\}_{n=0}^\infty \begin{array}{c} \longrightarrow \\ \longleftarrow \end{array} \\
\uparrow \downarrow & & \uparrow \downarrow & & \uparrow \downarrow \\
\{q_n^{k,t-1}\}_{n=0}^\infty & \{e_n^{k,t-1}\}_{n=1}^\infty & \{q_n^{k,t}\}_{n=0}^\infty & \{e_n^{k,t}\}_{n=1}^\infty & \{q_n^{k,t+1}\}_{n=0}^\infty & \{e_n^{k,t+1}\}_{n=1}^\infty \\
\downarrow & & \downarrow & & \downarrow \\
\begin{array}{c} \longrightarrow \\ \longleftarrow \end{array} \{\phi_n^{k,t-1}(x)\}_{n=0}^\infty & \xrightleftharpoons[\{\tilde{e}_n^{k,t-1}\}_{n=1}^\infty]{\{\tilde{q}_n^{k,t-1}\}_{n=0}^\infty, s^{(t-1)}} & \{\phi_n^{k,t}(x)\}_{n=0}^\infty & \xrightleftharpoons[\{\tilde{e}_n^{k,t}\}_{n=1}^\infty]{\{\tilde{q}_n^{k,t}\}_{n=0}^\infty, s^{(t)}} & \{\phi_n^{k,t+1}(x)\}_{n=0}^\infty \begin{array}{c} \longrightarrow \\ \longleftarrow \end{array} \\
\uparrow \downarrow & & \uparrow \downarrow & & \uparrow \downarrow \\
\{q_n^{k-1,t-1}\}_{n=0}^\infty & \{e_n^{k-1,t-1}\}_{n=1}^\infty & \{q_n^{k-1,t}\}_{n=0}^\infty & \{e_n^{k-1,t}\}_{n=1}^\infty & \{q_n^{k-1,t+1}\}_{n=0}^\infty & \{e_n^{k-1,t+1}\}_{n=1}^\infty \\
\downarrow & & \downarrow & & \downarrow \\
\begin{array}{c} \longrightarrow \\ \longleftarrow \end{array} \{\phi_n^{k-1,t-1}(x)\}_{n=0}^\infty & \xrightleftharpoons[\{\tilde{e}_n^{k-1,t-1}\}_{n=1}^\infty]{\{\tilde{q}_n^{k-1,t-1}\}_{n=0}^\infty, s^{(t-1)}} & \{\phi_n^{k-1,t}(x)\}_{n=0}^\infty & \xrightleftharpoons[\{\tilde{e}_n^{k-1,t}\}_{n=1}^\infty]{\{\tilde{q}_n^{k-1,t}\}_{n=0}^\infty, s^{(t)}} & \{\phi_n^{k-1,t+1}(x)\}_{n=0}^\infty \begin{array}{c} \longrightarrow \\ \longleftarrow \end{array} \\
\uparrow & & \uparrow & & \uparrow
\end{array}$$