

$$\begin{array}{c} u' \\ \bullet \\ \diagup \quad \diagdown \\ \textcolor{red}{\diagdown} \quad \textcolor{blue}{\diagup} \\ u \end{array} \textcircled{3} = \begin{array}{c} u' \\ \diagdown \quad \diagup \\ \textcolor{blue}{\diagup} \quad \textcolor{red}{\diagdown} \\ \bullet \\ u \end{array} \textcircled{3}$$

$$D_i^{u,u'} e_i^{u'} = e_{i+1}^u D_i^{u,u'}$$

$$\begin{array}{c} u \\ \diagdown \quad \diagup \\ \textcolor{red}{\diagup} \quad \textcolor{blue}{\diagdown} \\ u' \\ \diagup \quad \diagdown \\ \textcolor{blue}{\diagdown} \quad \textcolor{red}{\diagup} \\ u \end{array} \begin{array}{c} \textcircled{2} \\ \\ \textcircled{3} \end{array} = \begin{array}{c} u \\ | \\ \textcolor{red}{|} \\ u \end{array} \begin{array}{c} | \\ \textcolor{blue}{|} \\ | \\ u \end{array} - \begin{array}{c} u \\ | \\ \bullet \\ \textcolor{red}{|} \\ u \end{array} \begin{array}{c} | \\ \circ \\ \textcolor{blue}{|} \\ | \\ u \end{array}$$

$$D_i^{u,u'} D_i^{u',u} = 1^u - \left(\frac{e_i}{e_{i+1}} \right)^u$$

$$\begin{array}{c} u' \\ \circ \\ \diagup \quad \diagdown \\ \textcolor{red}{\diagdown} \quad \textcolor{blue}{\diagup} \\ u \end{array} \textcircled{3} = \begin{array}{c} u' \\ \diagdown \quad \diagup \\ \textcolor{blue}{\diagup} \quad \textcolor{red}{\diagdown} \\ \circ \\ u \end{array} \textcircled{3}$$

$$D_i^{u,u'} (e_i^{u'})^{-1} = (e_{i+1}^u)^{-1} D_i^{u,u'}$$

$$\begin{array}{c} u \\ \diagdown \quad \diagup \\ \textcolor{red}{\diagup} \quad \textcolor{blue}{\diagdown} \\ u' \\ \diagup \quad \diagdown \\ \textcolor{blue}{\diagdown} \quad \textcolor{red}{\diagup} \\ u \end{array} \begin{array}{c} \textcircled{3} \\ \\ \textcircled{2} \end{array} = \begin{array}{c} u \\ | \\ \textcolor{blue}{|} \\ u \end{array} \begin{array}{c} | \\ \textcolor{red}{|} \\ | \\ u \end{array} - \begin{array}{c} u \\ | \\ \circ \\ \textcolor{blue}{|} \\ u \end{array} \begin{array}{c} | \\ \bullet \\ \textcolor{red}{|} \\ | \\ u \end{array}$$

$$D_i^{u,u'} D_i^{u',u} = 1^u - \left(\frac{e_{i+1}}{e_i} \right)^u$$