

$$\begin{array}{c}
 \mathbf{A} \\
 | \\
 0 \text{ --- } | \text{ --- } 0 \\
 | \\
 \mathbf{A}
 \end{array}$$

$$\frac{1 - sxq^{|\mathbf{A}|}}{1 - sx}$$

$$\begin{array}{c}
 \mathbf{A} \\
 | \\
 k \text{ --- } | \text{ --- } k \\
 | \\
 \mathbf{A}
 \end{array}$$

$$\frac{(-sx + s^2q^{A_k})q^{A_{[k+1,n]}}}{1 - sx}$$

$$\begin{array}{c}
 \mathbf{A}_k^- \\
 | \\
 0 \text{ --- } | \text{ --- } k \\
 | \\
 \mathbf{A}
 \end{array}$$

$$\frac{-sx(1 - q^{A_k})q^{A_{[k+1,n]}}}{1 - sx}$$

$$\begin{array}{c}
 \mathbf{A}_k^+ \\
 | \\
 k \text{ --- } | \text{ --- } 0 \\
 | \\
 \mathbf{A}
 \end{array}$$

$$\frac{1 - s^2q^{|\mathbf{A}|}}{1 - sx}$$

$$\begin{array}{c}
 \mathbf{A}_{k\ell}^{+-} \\
 | \\
 k \text{ --- } | \text{ --- } \ell \\
 | \\
 \mathbf{A}
 \end{array}$$

$$\frac{-sx(1 - q^{A_\ell})q^{A_{[\ell+1,n]}}}{1 - sx}$$

$$\begin{array}{c}
 \mathbf{A}_{\ell k}^{+-} \\
 | \\
 \ell \text{ --- } | \text{ --- } k \\
 | \\
 \mathbf{A}
 \end{array}$$

$$\frac{-s^2(1 - q^{A_k})q^{A_{[k+1,n]}}}{1 - sx}$$