

$$\begin{array}{r|l} zI & zI - A \\ \hline zI - A & I + z^{-1}A + z^{-2}A^2 + z^{-3}A^3 + \dots \end{array}$$

$$\begin{array}{r} A \\ A - z^{-1}A^2 \end{array}$$

$$z^{-1}A^2$$

$$z^{-1}A^2 - z^{-2}A^3$$

$$z^{-2}A^3$$

$$\vdots$$