

$$\begin{array}{c} 0 \quad 1 \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix} \begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix} \left\{ \begin{array}{c} 0 \quad 1 \\ 1 \quad 0 \end{array} \right\} \left| \begin{array}{c} 0 \quad 1 \\ 1 \quad 0 \end{array} \right| \left| \left| \begin{array}{c} 0 \quad 1 \\ 1 \quad 0 \end{array} \right| \right| \\ 1 \quad 0 \end{array}$$

$$A = \begin{pmatrix} a_{11}^2 & a_{12}^2 & a_{13}^2 \\ 0 & a_{22} & a_{23} \\ 0 & 0 & a_{33} \end{pmatrix}$$

$$A = \begin{bmatrix} a_{11} & \cdots & a_{1n} \\ & \ddots & \vdots \\ 0 & & a_{nn} \end{bmatrix}_{n \times n}$$

$$A = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & \\ & & 1 & 0 \\ 0 & & 0 & 1 \end{pmatrix}$$

$$0 \begin{pmatrix} a_{11} & a_{12} & \cdots & a_{1n} \\ & a_{22} & \cdots & a_{2n} \\ & & \ddots & \vdots \\ & & & a_{nn} \end{pmatrix}$$

$$\begin{pmatrix} 1 & \frac{1}{2} & \dots & \frac{1}{n} \\ \vdots & \vdots & \ddots & \vdots \\ m & \frac{m}{2} & \dots & \frac{m}{n} \end{pmatrix}$$

复数  $z = (x, y)$  可以表示为矩阵形式:  $\begin{pmatrix} x & -y \\ y & x \end{pmatrix}$  来表示

$$\begin{array}{c|c} \frac{1}{2} & 2 \\ \hline 2 & 2 \\ \hline 0 & -\frac{1}{2} \end{array}$$

$$\underbrace{\left( \begin{array}{ccc|ccc} a & \cdots & a & b & \cdots & b \\ & \ddots & \vdots & & \ddots & \\ & & a & b & & \\ \hline & & 0 & c & \cdots & c \\ & & & \vdots & & \vdots \\ & & & c & \cdots & c \end{array} \right)}_{\substack{m \quad m}} \left. \begin{array}{l} \phantom{\left( \right)} \\ \phantom{\left( \right)} \\ \phantom{\left( \right)} \\ \phantom{\left( \right)} \end{array} \right\} \begin{array}{l} p \\ q \end{array}$$