

$$A = \begin{pmatrix} 4 & 3 & 2 & 1 \\ 3 & 6 & 4 & 2 \\ 2 & 4 & 6 & 3 \\ 1 & 2 & 3 & 4 \end{pmatrix}$$

4 decimale

$A = A^T \rightarrow$ Hermitian

$$x_1 \rightarrow \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

$$x_1 = \begin{bmatrix} 3 \\ 2 \\ 1 \end{bmatrix}$$

$$G = 3.7417, \quad K = -3.7417, \quad \beta = 0.0396$$

$$\mu = (G, 7417, 2, 1)^T$$

$$H_1 = \dots = \begin{bmatrix} \quad \quad \quad \end{bmatrix}_{3 \times 3}$$

$$T_1 = \left[\begin{array}{c|ccc} 1 & 0 & 0 & 0 \\ \hline 0 & & & \\ 0 & & & \\ 0 & & & \end{array} \right] \begin{matrix} \\ H_1 \\ \end{matrix}$$

$$A_1 = T_1 \cdot A \cdot T_1 = \begin{bmatrix} 4 & * & 0 & 0 \\ -3.7417 & * & & \\ 0 & * & & * \\ 0 & * & & \end{bmatrix}$$

$$x_1 \rightarrow \begin{bmatrix} * \\ 0 \end{bmatrix} \quad G, K, \beta, \mu, \dots$$

$$H_2 = \begin{bmatrix} \quad \end{bmatrix}_{1 \times 1}$$

$$T_2 = \left[\begin{array}{c|cc} 1 & 0 & 0 \\ \hline 0 & 1 & 0 \\ 0 & 0 & \\ 0 & 0 & \end{array} \right] \begin{matrix} \\ H_2 \\ \end{matrix}$$

$$A_2 = T_2 \cdot A_1 \cdot T_2 =$$

$$\begin{bmatrix} \diagup & & 0 \\ 0 & \diagup & \\ & 0 & \diagup \end{bmatrix}$$