

COMPUTE ERROR & RESIDUAL VECTORS...

OF

STC & PAGES OF
WIRE WIRE
TWISTED
ENTROPY
BEHAVIOR OF
QUANTUM STATES

$$r = b - Ax$$

or?

IF

$$A = \begin{bmatrix} 1.2969 & 0.6848 \\ 0.2161 & 0.1441 \end{bmatrix}$$

so, $r = b - Ax$

$$r_i = b - Ax_i, \quad b = \begin{bmatrix} 2 \\ -2 \end{bmatrix}$$

$$= \begin{bmatrix} 2 \\ -2 \end{bmatrix} - \begin{bmatrix} \dots \end{bmatrix} \begin{bmatrix} x_{i1} \\ x_{i2} \end{bmatrix}$$

TRUE 25

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

$$\begin{bmatrix} 2 \\ -2 \end{bmatrix} = x_T$$

$$x_2 = \begin{bmatrix} 0.9911 \\ -0.4871 \end{bmatrix}$$

ISN'T ERROR \geq TRUE - APPROX

TRUE @ x_{T1} IS 2

$$r_1 = 2 - 1.2969 \cdot x_{11} - 0.6848 \cdot x_{12}$$

$$= 2 - 1.2969 \cdot 1 - 0.6848 \cdot 1$$

$$= 2 - 0.648$$

$$r_1 = 2.648$$

FOR x_{T2} IS -2

$$E_{x1} = |2 - \phi| = 2$$

$$E_{x2} = |-2 - 1| = 3$$

$$r_2 = -2 - (0.2161) \cdot (0.9911) - (0.1441) \cdot (-0.4871)$$

$$r_2 \hat{=} -2.144$$

SO FOR x_2

$$E_{T1} = |0.9911 - 2| = 1.0089$$

$$E_{T2} = |-0.4871 - (-2)| = 1.5129$$