A

model

$$\tau \frac{d\mathbf{x}}{dt} = A\mathbf{x}$$

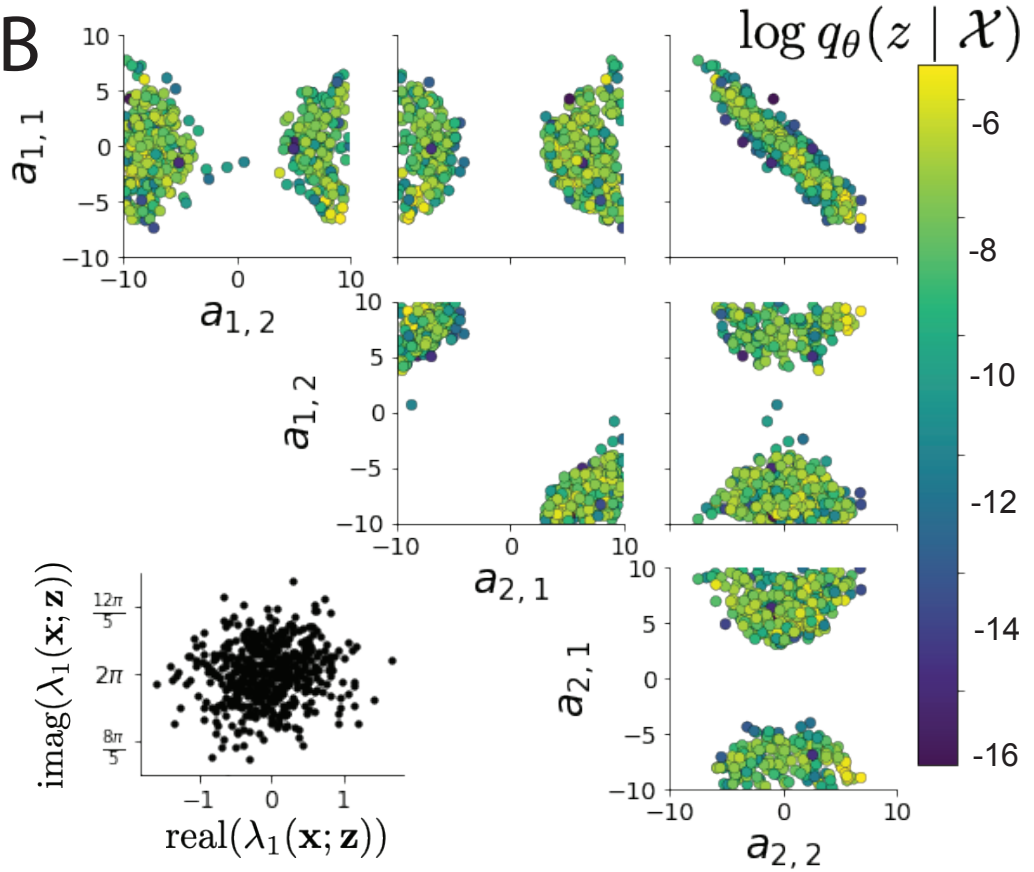
$$A = \begin{bmatrix} a_{1,1} & a_{1,2} \\ a_{2,1} & a_{2,2} \end{bmatrix}$$

emergent property

$$\mathcal{X} \;:\; \mathbb{E}_{\mathbf{z}} \begin{bmatrix} \text{real}(\lambda_1(\mathbf{x};\mathbf{z})) \\ \text{imag}(\lambda_1(\mathbf{x};\mathbf{z})) \end{bmatrix} = \begin{bmatrix} 0 \\ 2\pi\omega \end{bmatrix}$$

$$\text{Var}_{\mathbf{z}} \begin{bmatrix} \text{real}(\lambda_1(\mathbf{x};\mathbf{z})) \\ \text{imag}(\lambda_1(\mathbf{x};\mathbf{z})) \end{bmatrix} = \begin{bmatrix} 0.5^2 \\ (\frac{\pi}{5})^2 \end{bmatrix}$$

B



C