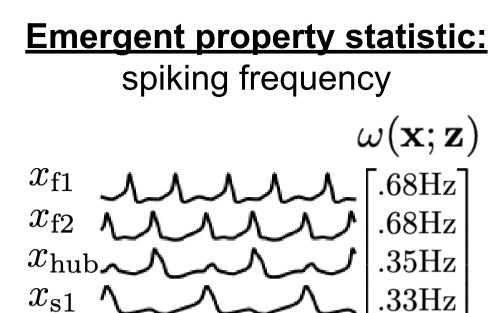
Biological model: STG $\mathbf{z} = \begin{bmatrix} g_{\mathrm{el}} \\ g_{\mathrm{synA}} \end{bmatrix} \mathbf{x} = \begin{bmatrix} x_{\mathrm{f1}} \\ x_{\mathrm{f2}} \\ x_{\mathrm{hub}} \\ x_{\mathrm{s1}} \\ x_{\mathrm{s2}} \end{bmatrix}$ g_{synA} $\mathbf{z} = \begin{bmatrix} g_{\mathrm{el}} \\ g_{\mathrm{synA}} \end{bmatrix} \mathbf{x} = \begin{bmatrix} x_{\mathrm{f1}} \\ x_{\mathrm{f2}} \\ x_{\mathrm{hub}} \\ x_{\mathrm{s1}} \\ x_{\mathrm{s2}} \end{bmatrix}$



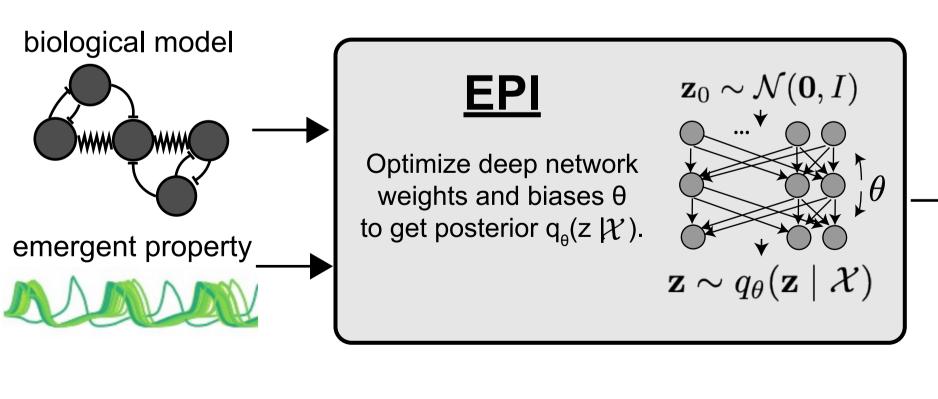
Emergent property: intermediate hub frequency

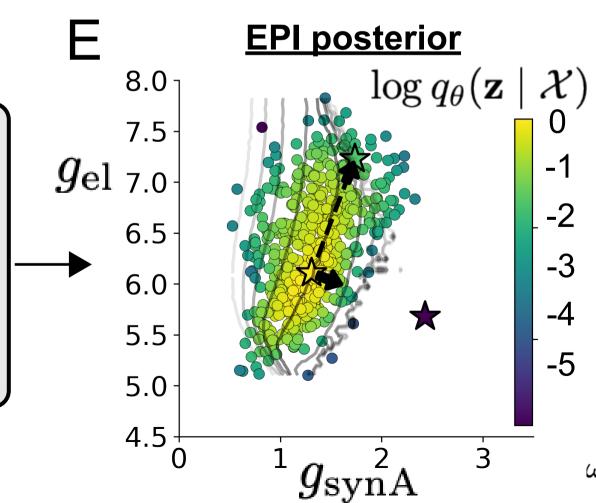
$$\mathbb{E}_{\mathbf{z},\mathbf{x}} \left[\omega_{\text{hub}}(\mathbf{x}; \mathbf{z}) \right] = 0.55 \text{Hz}$$

$$\text{Var}_{\mathbf{z},\mathbf{x}} \left[\omega_{\text{hub}}(\mathbf{x}; \mathbf{z}) \right] = 0.025^2 \text{Hz}^2$$



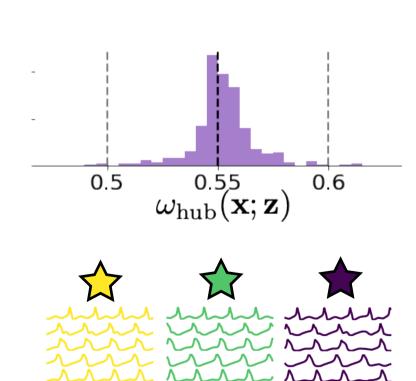






 $.35 \mathrm{Hz}$

Posterior simulations



.54Hz

.43Hz

=.55Hz