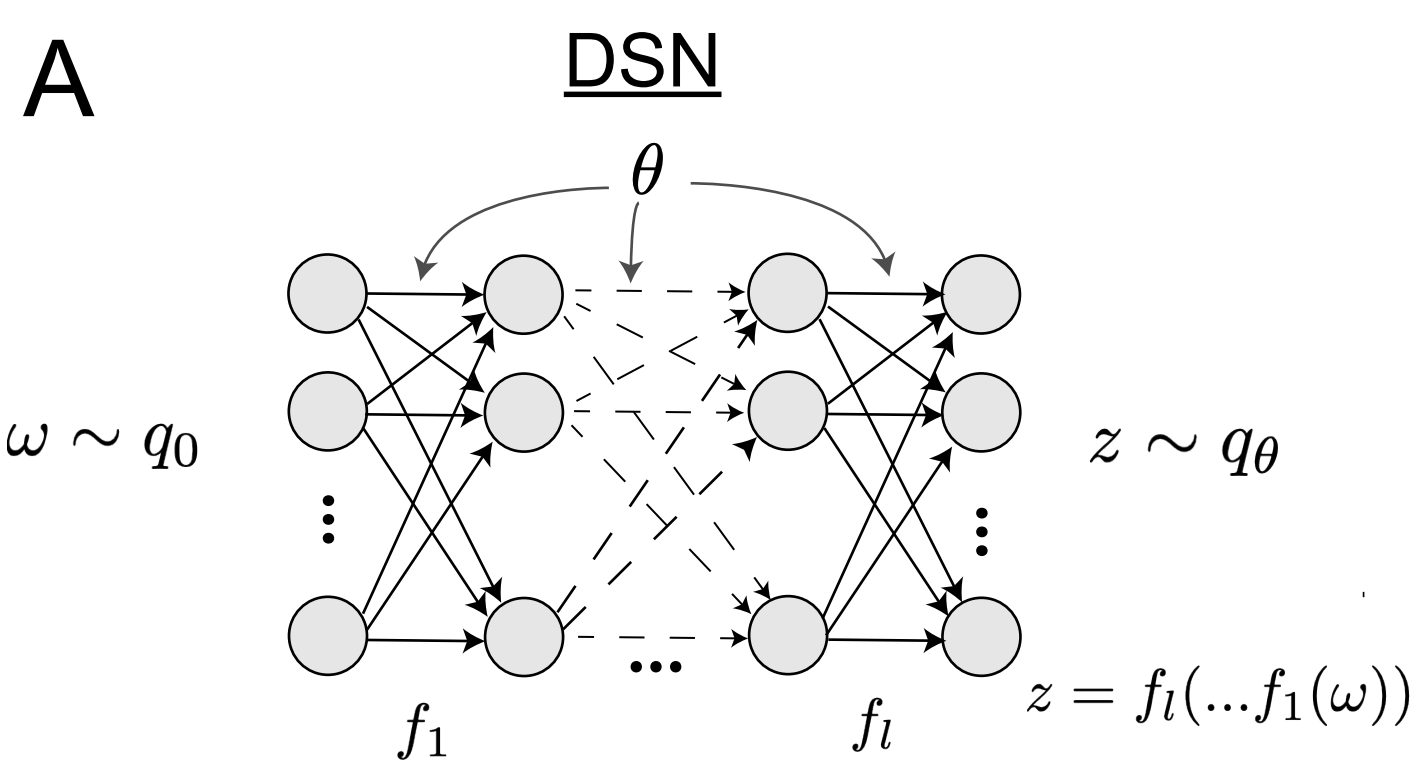


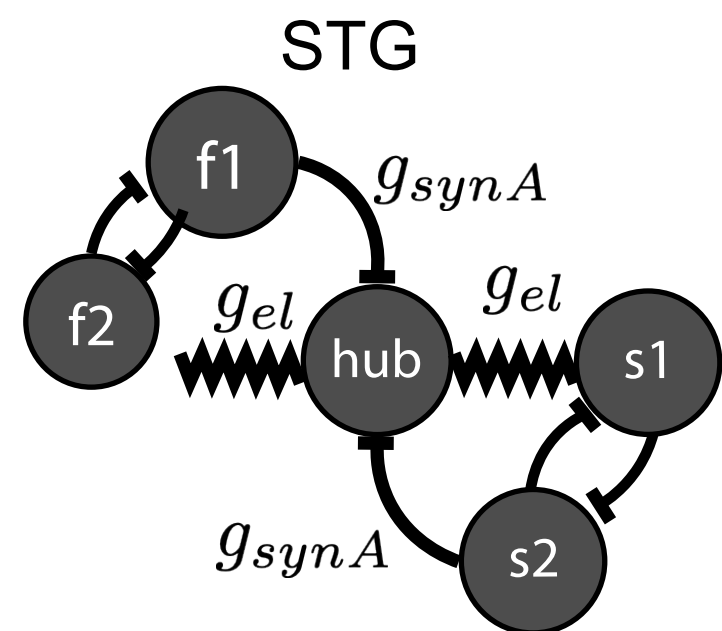
A

DSN objective

$$q_\theta^* = \arg \max_{q_\theta \in Q} H(q_\theta)$$

$$\text{s.t. } \underbrace{E_{z \sim q_\theta}}_{\text{DSN samples}} \left[\underbrace{E_{x \sim p(x|z)}}_{\text{model simulations}} \left[\underbrace{T(x)}_{\text{emergent property statistics}} \right] \right] = \underbrace{\mu}_{\text{emergent property constraints}}$$

B

biological model

network syncing

emergent property