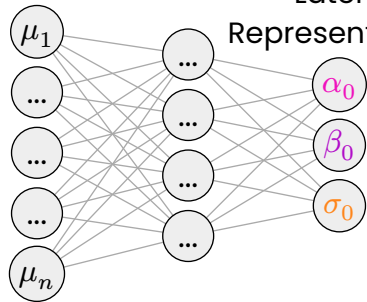


# Encoder

$$\mathcal{N}_{\theta_1}^{\text{Enc}}$$

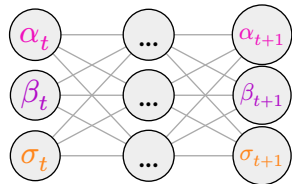
Input Layer



Latent Representation

# Latent Predictor

$$\mathcal{N}_{\theta_2}^{\text{Pred}}$$

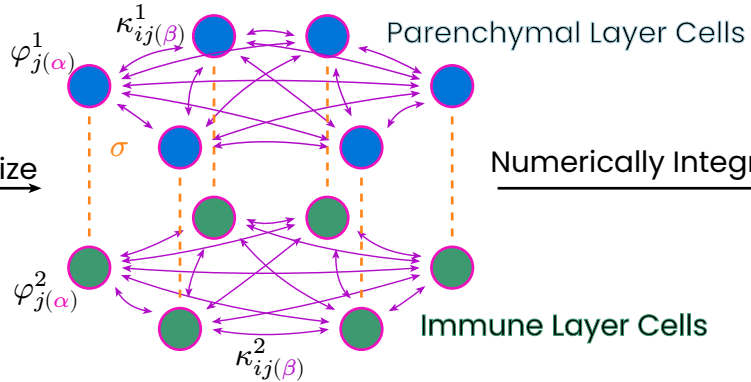


Auto regressive

Parametrize

# Dynamic Network Model (DNM)

eqs. (1)-(4)



Numerically Integrate

$$\hat{S}(s_0^1), \dots, \hat{S}(s_T^1)$$

# SOFA-score Trajectory

eqs. (5) and (6)