

Step B: Train NODE with Enhanced Signal

Neural ODE

Observations \mathcal{X} Train

Neural ODE

Output Trajectory

Predict

Est. Derivative
$$\mathcal{D}$$
 Output Derivative Enhanced Loss : $\tilde{\mathcal{L}}(\Theta) = \mathcal{L}(\Theta) + \lambda ||\mathcal{D} - f_{\Theta}(\mathcal{X}, \mathcal{T})||_2^2$