

Figure 5: The graphical model for CNSL, where the solid arrows indicate the variational approximation $q_{\phi_1}(z_s|x_s,G_s)$ and $q_{\phi_2}(z_{fs}|x_s,f_s,G_s)$ to the intractable posterior $p(Z|x_s, f_s, G_s)$. Dashed arrows denote the generative

information diffusion $p_{\psi}(y_t|x_s,\mathcal{G})$.

process that decodes x_s from $p_{\theta}(x_s|Z)$ and predicts the