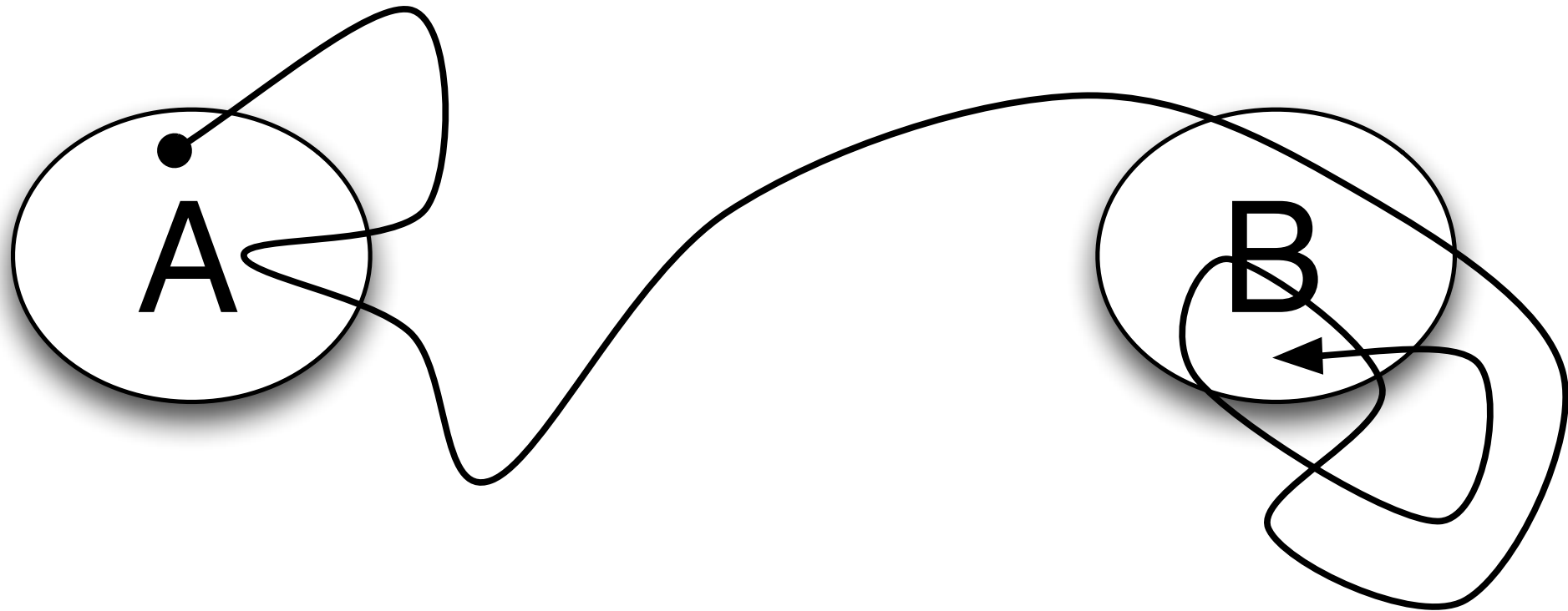
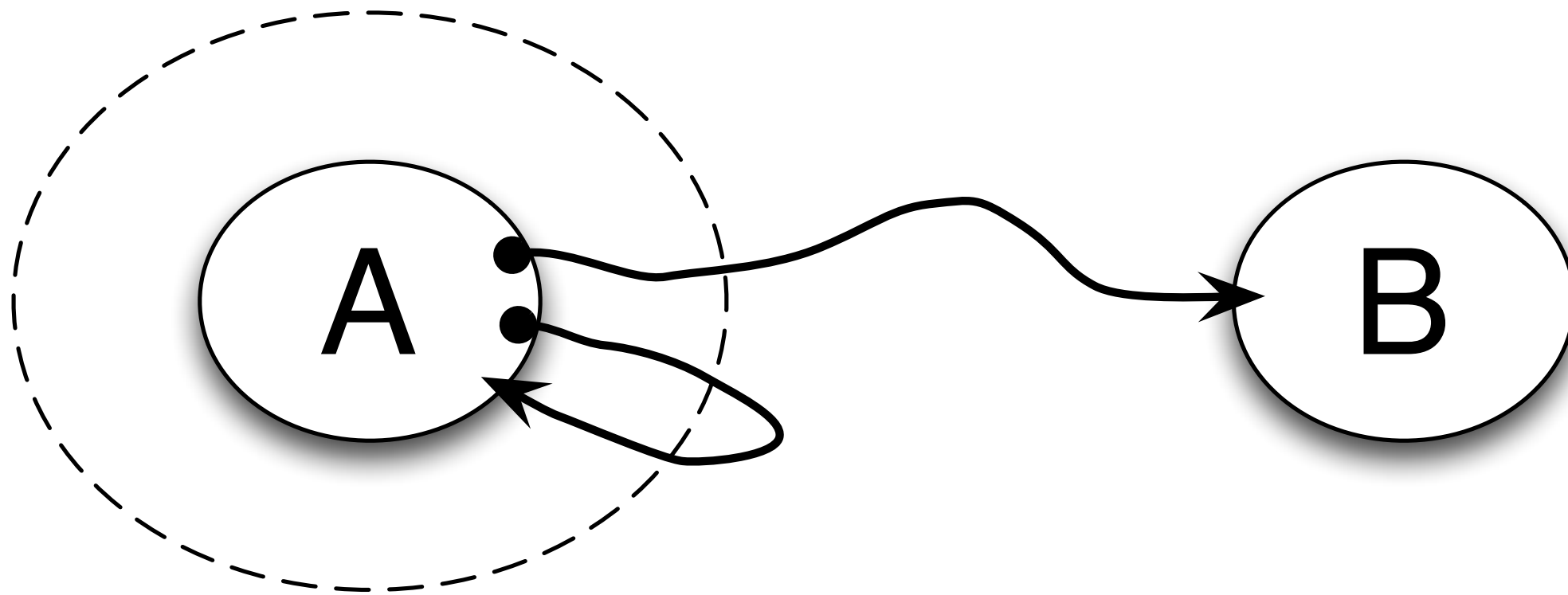


Path ensemble: TPS



$$H[\mathbf{x}(L)] = h_A(x_0)h_B(h_L)$$

Path ensemble: TIS



$$H[\mathbf{x}(L)] = h_A(x_0) \hat{h}_j[\mathbf{x}(L)] \prod_{\alpha \in \{A, B\}} \bar{h}_\alpha[\mathbf{x}(L)] \sum_{\alpha \in \{A, B\}} h_\alpha(x_L)$$

$$\hat{h}_j[\mathbf{x}(L)] = \begin{cases} 1 & \text{if } \exists x_i \in \mathbf{x}[L] \text{ such that } \lambda(x_i) > \lambda_j \\ 0 & \text{otherwise} \end{cases}$$

$$\bar{h}_\alpha[\mathbf{x}(L)] = \prod_{i=1}^{L-1} (1 - h_\alpha(x_i))$$