Principal Component Analysis

M-step

$$\max_{\theta} \mathbb{E}_{q(T)} \sum_{i} \log p(x_i \mid t_i, \theta) p(t_i)$$

$$= \sum_{i} \mathbb{E}_{q(t_i)} \log \left(\frac{1}{Z} \exp(\dots) \exp(\dots) \right)$$