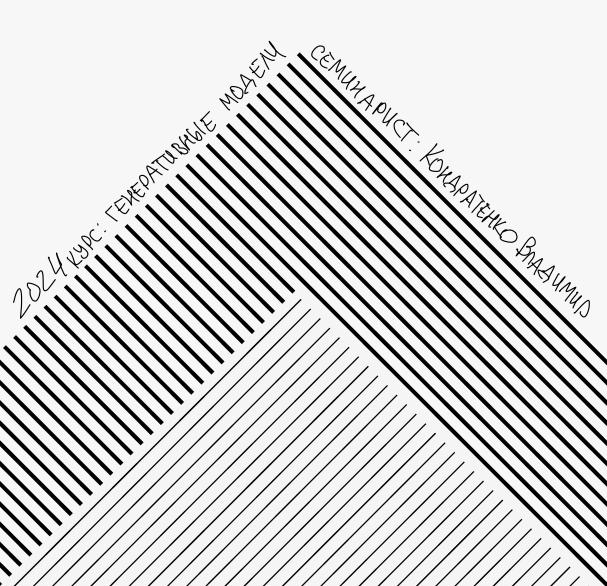
Centurel 5



$$\frac{P(X|\theta) = \sum_{k=1}^{k} P(X|z,\theta) \cdot P(z) = \sum_{k=1}^{k} T_{k} N(X|u_{k}, \sum_{k})}{N_{k}(X)}$$

$$\frac{P(X, z|\theta)}{\text{dim } 1...k} \times \left(\frac{P(X, z|x) - P(X_{k}|z = k) \cdot P(z = k)}{P(X_{k}|X_{k}) \cdot P(X_{k}|z = k)} \right) = \frac{P(X_{k}|X_{k}) \cdot P(X_{k}|x)}{P(X_{k}|X_{k})}$$

$$\frac{P(X_{k}|X_{k}) - P(X_{k}|X_{k}) \cdot P(X_{k}|X_{k})}{P(X_{k}|X_{k})}$$

D=7 [M,Z,π]

E-wan
$$g = p(z=k|X_n, \theta) = \frac{\pi_k}{2} \frac{M_k(X_n)}{2\pi_k N_k(X_n)} = g_{nk}$$
 $Z = g = (g_n, g_n)$
 $M - wan$ argundo $|E_{op}| Cog p(X_n, 2|\theta) = g_n$
 $= \frac{1}{2} p_{gx}(2=k) \cdot log p(X_n, 2=k|\theta) = g_n$
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