MLZ:
$$PCX(B)$$
 $PCA(B) = \frac{PCB(B) \cdot PCB}{PCB(B)}$
 $PCB(B) = \frac{PCB(B) \cdot PCB}{PCB}$
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 $PCB(B) = \frac{PCB(B) \cdot$

= [2PCZ|X,0th). log(<u>PCZ|X,0th)</u> dz $\leq \log \int_{\mathbb{R}} Rcz(\chi,\theta^{(t)}) \cdot \log \frac{Rcz(\chi,\theta^{(t)})}{Rcz(\chi,\theta^{(t)})} dz = \log \int_{\mathbb{R}} Rcz(\chi,\theta^{(t)}) dz$ $= \log 1 = 0$ ZU盆: θ = argrax Sz log P(x. Z/A) · P(Z/12. β) olz Z-Sto: PCZ | 1.0) -> Ez12.04 [logPcx=2 | 0)] M-Step: 0 = argrax EzIX.0 [logPcX=10] leg PCXIB) = leg PCX-21B) - leg PCZ (X-B) = log PCX210) - log PCZ120) $f(x) = \int_{\mathbb{R}} g(x) \log f(x) \theta dx = \log f(x) \theta \cdot \int_{\mathbb{R}} g(x) dx = \log f(x) \theta \cdot \int_{\mathbb{R}} g(x) dx = \log f(x) \theta \cdot \int_{\mathbb{R}} g(x) \log \frac{f(x)}{g(x)} dx = \int_{\mathbb{R}} g(x) \log \frac{f(x)}{g(x)} dx$ KLCQCZXIPCZIXD) = existence liner bound log PCXIB) = ZLBO + KLC9/19) 20 by PEXID) = ZLBO 二取 ZUBO的最大值到从获与PCNID最大 $\Rightarrow \hat{\theta} = a g \max_{\theta} \frac{ELBO}{2}$ $= a g \max_{\theta} \int_{\mathbb{R}^{2}} \left(\frac{e^{2} \log |\theta|}{2} \right) dz$ BO BIBA

= agency \ PCZ | NOW) log \ \ PCX = 18-18-3 dz

= argum \ \ PCZ | NOW) \ log \ PCX = 18-18-3 dz

= argum \ \ PCZ | NOW) \ log \ PCX = 180

= argum \ \ PCZ | NOW) \ log \ PCX = 180