P(yet = 2 | Xet, Pa) = exp(BTXens) $KL[9||P] = \int log \frac{9(\beta_a|\lambda)}{P(\beta_a|D,9,s)} = E \left[log \frac{9(\beta_a|\lambda)}{P(\beta_a|D,9,s)}\right]$ I sep (\$ Xeis) Pa 19, se ~ Nx (9,52) = - [(1,9,52)+ logp(D/9,52) 9/80, 20 ~ NK (Bo, 20) DE / S, Y ~ W - 1 (5 - 1, Y) P(Pn, 9, 52 | D) = P(9) P(s2) TP(Pn | 9, 52) TP (Yat / Xat, Pn) Sp(9)p(s) Tip(Pa)4, r) Tip(yes) Xer, Pa) of Fad 9 ds2 9(Pa) Ma, Za) ~ N(Ma, Za) H Th H(q) + $\sum_{k=2}^{H}$ Eglog P(Pa) 9,52) + $\sum_{k=2}^{L}$ Eglog P(Yay) Xax, Sa) H(q) + TE [logp(Ba|9, si)] + TE Eq [Tyar (Xais Pa) - tog(Text Fa) log (Text Pars Pa)] H(q)+ = Eq[logp(Ba | 4, r)]+ = = [= [= [= 1] Ver ati Ma - Eq[log(= 1] [= 1] [= 1]]] has no plosed jum

Pelta method: EJ(V) = J(E(V)) + 1 fc/ (OJ(E(V)) cov(V) = log(\(\frac{1}{5} \log \log \text{\text{Xeris}} \mu \mu \log \text{\text{Xeris}} \mu \mu \mathred{\text{Xeris}} \mu \mathred{\text{Neris}} \mathred{\text{Neris}} \mathred{\text{Neris}} \mathred{\text{Neris}} \mathred{\text{Neris}} \mathre Jensen inequality 4(ETXJ) (ETQ(X)]

H(a) + \(\frac{1}{2}\) Eq [log \(\frac{1}{2}\) \(\frac{1}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\ = H(a)+ ZEg [log p(Pa/P, r) + = = I = [= Yat Xet Pla - log (I exp(Xet) Pla + = Xet; Za Xeti)] = 1 \(\frac{1}{2} \log \(\log \(\log \(\log \(\log \(\log \(\log \) \) - \(\frac{1}{2} \log \(\log \frac{1}{2} \log \(\log \frac{1}{2} \log \frac{1}{2} \log \(\log \frac{1}{2} \log \frac{1}{2} \log \(\log \frac{1}{2} \log \frac{1}{2} \log \frac{1}{2} \log \frac{1}{2} \log \frac{1}{2} \log \(\log \frac{1}{2} \log \frac{1}{2} \log \frac{1}{2} \log \(\log \frac{1}{2} \log \frac + \(\frac{1}{2}\) \(\frac{1}{2