Lecone 19 Mars 390.03-02 5/2/16

not a conj. disor!

Roull .. Xlo~ Br(h, 0), Or Beon (x,B) > AX - Bear (M+a, M-X+B), X - Bear bin (4, x, B) Ulrif O of Bean (X,B) Can you still use carjugay? No, bor Yes ... who of P(E) 2 Son Pa(O) St Pro(O) = Bear (XM, Bus) (0) = 1 Besa (3,3) +2 bem (2,4) between is the cogique? No but de roch is nice ... Conjugne misone priors $P(0|x) = P(x|0) \sum_{m=1}^{\infty} f_m P_m(0)$ $\Rightarrow \int \rho(10) \sum_{m=1}^{M} \gamma_m \rho_m(0) d\theta = \sum_{m=1}^{M} \gamma_m \int \rho(10) (\gamma_m(0)) d\theta$ = Sym P(XIO) Pm(e) if 8 mm & PM(X) PM(Q(X) & E PM(B) PM(Q(X)) $=\frac{\sum (m_{n}) \frac{P(x)\Theta) P(n)\Theta}{P(n)} P(n)}{P(n)}$ Styly Prole the leas 0, - len (x, b), Or - Gem (2, b2), 8, - 82 - 1 Bearbor (n, x, b,) bear (x+x, n-x+b,) Beans n(h, x, B) + lon Bil n, az, bi) + Ben Bry (4, 0, pr) Bean (x+02, 4-x+Br)

Magicino Alip Dies by applying den. P(H) = = BUT... if the side is showed, the RH) is bird... assure birs is \(\frac{2}{3}\) or \(\frac{1}{3}\) have shall sounds It or rounds T is egal prob... describe hater ege So P(0) ~ 1 lean (10,20) + 1 len (20,10) of see strengths core from prior knowledge show the Edasones of the Lary Con 'span' h=10, x=3 (knb) 1 dbb(3,10,10,20) + dbb(3,10,20,10) + dbb(3,10,20,10) Bear (23, 17) dvus 44 confra "Morre Cordo" Kenll = 0.892 Bean (13,27) + 0.100 Berg (23,17)

= rdendinon (h, \alpha, \beta)
= pleambiline (x, \ma, \beta)
= vdendinon (\beta, \ma, \beta)
= delembra (\chi, \ma, \beta)
= delembra (\chi, \ma, \beta)

There are \(P(X = X) \)
\(\text{V-lembra(h, \alpha, \beta)} \)

P(O|v)

 $\hat{O}_{MMSE} = 0.892 \frac{13}{40} + 0.108 \frac{23}{40} = 0.352$ $\hat{O}_{MAP} = 99200 2 P(O(K)^{\frac{3}{2}}) \text{ not so simple...}$

Revers, Hon so ges OMAP? O'Th you know subooks, use Norm approx Over girl supling. Make he good and compose wall vals. Takena. Enop:= agua { PO(x)} = agua { K(O(x)} = agua { E (O(x)} = agua { E on Pu(x) Pu(O(x)} for the bean-binoine case, 10 [Sym Bentin (n, xm, pm) Bon (x+xm, n-x-Bn)] = 0 $\frac{d}{d\theta} \left[\sum_{k=1}^{\infty} \frac{\partial u_{k}}{\partial x_{k}} \frac{\partial u_{k}}{\partial x_{k}}$ $= \underbrace{\sum \underbrace{\delta m}_{(-0)} \underbrace{\delta \sigma}_{(-0)} \underbrace{\delta \sigma}_{$ No closed from sol for D! When to do? Nymil repol ... Solve fa) = 0 for x, where f is diff. sed fulting (Xo, f(80) > Isep guess 14 X RS of rox Sky 2 dran sugar live no flo) Sup 3: find it x 12 reger = x, Sty 4: Roger Super 1-3 who xo=X, May the course $|X_{t+1}-X_t| < \mathcal{E}$ (the scheme) have E is small (this algorith is an dermore neather)

Sup? to con be sometime as follows. But so 7th grade...
y-b = m(x-A) $Y - f(x_0) = f(x_0)(x - x_0)$ X, is Solini for X-Interest is y=0 -f(x0) = f'(x0) (x-x0) 1669 - New for popul $\Rightarrow -\frac{f(x_0)}{f(x_0)} = x^{1-\lambda_0} \Rightarrow x^{1} = x^0 - \frac{f(x^0)}{f(x^0)}$ 1690-Agghson 1740- Speper (soly's user) $X_7 = X_1 - \frac{f(x_1)}{f'(x_1)}$ Xxx = Xx - 160 } Collect the Newson - Replan Meshal Let's get ∂_{map} . $\int_{(x)}^{(x)} \int_{(x)}^{(x)} \int_{(x)}$ N-R giso 0.31577 + 0.352 = 0 mmsE Who bid he do? $R(O18_1...8m)$ $R(S_1...8m)$ Herarchiel Model $R(O18) = R(O) \leq Sm Rm(O)$ $R(O18) = R(O) \leq Sm Rm(O)$ $R(O18_1...8m)$ $R(S_1...8m)$ $R(O18_1...8m)$ $R(S_1...8m)$ $R(O18_1...8m)$ $R(S_1...8m)$ $R(O18_1...8m)$ $R(S_1...8m)$ $R(O18_1...8m)$ $R(S_1...8m)$ $R(S_1...8m)$ $R(O18_1...8m)$ $R(S_1...8m)$ $R(S_1$

New problem: this looks like ... V1,..., 2 P(x | 00,00,00,00,00) + (- 8) N(D, 62) Chroif re just are about a best quest promis? MILE Set V ln L (0,02,0,02, 8) = 0 The Tero; e-26; (xi-0,)2+ (1-4) \frac{1}{\sin 2000;} e-\frac{1}{260;} (xi-0,)^2 (rid gearch Oo e [...], D, e[...] Re (0,1), 62 e[...], of, e[...] In 5 discussion 1000 = 1e15 ... Still okay ... but who of XI, is exos & em N(Om, or), A large... god sand folls...