Cemukap 10 D-# goves T-# wen W- moscips DERDYT - parpegenenne men hag kanegorn gekenn 2 - mena kanegor Crosa GP & RXXW - parpeg menor hag crosance p(W, 2, 0) (p, d) = 1 p(B/2) 1 p(W, 19, 2m) p(2/18) te R² - mena kangoro goka (7 y nero Bygen p(+1 th) = Cort(th) the policy free of mena) $p(W, t | QP, Ta) = \bigcap_{d=1}^{\infty} p(t_d | Ta) \bigcap_{h=1}^{\infty} p(W_{dh} | QP, t_d) =$ = 1 The 1 gp won 3 [k=t] 3 Count 2012 1) E-step 96 9(t) = 19 (t1) The Mark Wan - Mak $q(t_s=k) = p(t_s=k|w_s) = \frac{p(k=t_s,w_s)}{\sqrt{s}}$ = 1 | N | P | Wan Splt=k, Wa) 9(ts) = Cat (Ms., Mat) 2) M-step Raft) leg p(W.t 10P, T) -> max

Deratrelu anpurpuel fracupeg. 19 ena, te R2 + npañep na cp T Nor (Pk/p) 17 11 to: 17 Pi, Wan]

p(W,t P(T,p) = 17 Dir (Pk/p) 17 11 to: 17 Pi, Wan]

k=1 1) $q(t, \varphi) \approx q(t) q(\varphi)$ $\log_{q(t)} \propto F_{q(q)} \log_{p}(w_{t}, p) = 2 \sum_{d=1}^{q} \sum_{i=1}^{q} \lfloor \log_{q_{i}} + \frac{1}{q} \rfloor$ + 5 [q(p) log 9]; Won $q(t) = \prod_{q(t_d)} q(t_d) \underset{n=1}{N_d} \exp(E_{qp} \log Q_{k}, w_{nd}) - M_{dk}$ $q(t_d = k) = \frac{1}{N_d} \prod_{n=1}^{N_d} \exp(E_{qp} \log Q_{k}, w_{nd}) - M_{dk}$ 2) log 9 (90) = Eq. + log p(W, t, 90) = Eq. + 2 log Dir (9x 1 p) = P Eq. 2 5 5 log Tx + 2 5 5 W = W_m I tog 9kw 5 t; = k] # Congr = # \(\frac{1}{2} \left[B-1 \right] \(\frac{1}{2} \left| \left| \right| \tag{\frac{1}{2}} \right| \frac{1}{2} \right| \frac{1 = \(\sum_{k=1}^{\infty} \log \text{Op}_{kw} \subseteq \beta - 1 + \sum_{d=1}^{\infty} \log \text{Muk} \subseteq \text{W} = W_{dn} \] $q(\varphi_k) = \Re_i r(\varphi_k(\Sigma \beta_k, ..., \beta_{kw}))$ $\beta_{ki} = \beta + \sum_{s=1}^{\infty} \sum_{u=1}^{\infty} M_u \Sigma w = w_{du}$

