Collapsed Gibbs for LDA

Model

$$p(heta_d) = ext{Dir}(eta)$$
 $p(\phi_t) = ext{Dir}(lpha)$ $p(z_{dn}| heta_d) = \Theta_{dz_{dn}}$ $p(w_{dn}|z_{dn},\Phi) = \Phi_{z_{dn}w_{dn}}$ Can compute analytically $p(\Theta \mid Z)$ Conjugate