N KSV- 17.

トセルクトかっセスメントらかう単語レ

である 単語の 統出现教

DRUYO DOLSHEAF ZHISIAT TIMIN MINI

P(Ods: | W.Z. Ods I, a, K, T., II, l)

of p(Ods, W.Z, Ods, I, II, R | a, b, r)

= $\rho(\Theta|\alpha)\rho(z|\theta,\alpha,l)\rho(w|z,\overline{\Phi},l)\rho(\overline{\Phi}|\beta)$

x p(l/II, r) p(II/r)

α 1 T p (θ ds | α) D Nd p (Zdn | θd, ldn)

 $= \frac{D}{d = |S|} \left\{ \begin{array}{c} \frac{K}{II} \\ k_{21} \end{array} \right\} \left\{ \begin{array}{c} \frac{K}{d + k_{3}} \\ \frac{K}{d + k_{3}} \end{array} \right\}$

Nd.k/s は、大書dにおいて、tt。クkかっセンチメントsに割り振られた総単語教

KOKUYO UDIDIELEAF JEAMAT YIRHIUMIKATIANA

 $\propto \frac{D}{d=1} \left\{ \rho \left(T_{d} \mid \mathcal{T} \right) \right\} \frac{N_{d}}{\prod_{i=1}^{m}} \left\{ \rho \left(l d_{i} \mid T_{i} d_{i} \right) \right\}$

 $\propto d=1$ $\int_{s=1}^{s} T_{ds}$ $\int_{n=1}^{Nd} \int_{s=1}^{s} \int_{s=1}^{s$

= D 1 5 Thds + 7-1 }

Nds IF、 大畫 d = 前的7. 电平分子的 a 割り干配られた

NOKUYO LOQUE ISAT ANDARAF THUR LIMINGS THUS

P(Zdn=k, ldn= 5 | Zldn, lldn, W, x, s, 8)

 $\mathcal{L} \left\{ \left(Wdn = V \mid W_{1}dn, Zdn = k, Z_{1}dn, Idn = 5, Ipm, S \right) \right.$ $\times \left\{ \left(Zdn = k \mid Z_{1}dn, Idn = 5, I_{1}dn, \alpha \right) \times \left\{ \left(Idn = 5 \mid I_{1}dn, S \right) \right.$

 $\propto \int_{\theta} \rho \left(W_{dn} = V \mid \beta_{ks} \right) \rho \left(\beta_{ks} \mid W_{idn}, \mathcal{Z}_{idn}, l_{idn}, \beta \right) d\beta_{ks}$ $\times \int_{\theta} \rho \left(\mathcal{Z}_{dn} = k \mid \theta_{ds} \right) \rho \left(\theta_{ds} \mid \mathcal{Z}_{idn}, l_{idn}, \alpha \right) d\theta_{ds}$

x In p (ldn = s | Td) p (Td | lidn, r) d Td.

= Epips [21dn, lide, s) [Pks v] * Epipds | Zidn, lidn, x) [Fdks]

× Epips (Rd | lidn, r) [Rds]

 $= \frac{N_{ksv} + S}{N_{d.k.s} + V} \frac{N_{d.k.s} + X}{N_{d.s} + V} \frac{N_{d.s} + Y}{N_{d.s} + X}$