Yuhri Ni.

ne have
$$g = \frac{k}{2} [2k_1]_{2,1}^{2} [2k_2]_{2,1}^{2} [2k_3]_{2,1}^{2} [2$$

$$=) \quad [O_{i}]_{1}, \chi_{1}^{(i)}, \chi_{R}^{(i)} = \frac{[N_{i}]_{1}, \chi_{1}^{(i)}, \dots, \chi_{R}^{(i)}}{\sum_{j=1}^{K} [N_{i}]_{1}, \chi_{L}^{(i)}, \dots, \chi_{R}^{(i)}} \quad \text{for shoots, } j_{1}, \chi_{1}^{(i)}, \dots, \chi_{R}^{(i)}$$

(c)
$$p(\overline{\theta}il_{1}b, \cdots \overline{\theta}l_{k}b|x_{i}, x_{m}) \propto p(x_{i} \cdots x_{m}|\overline{\theta}l_{k}b, \cdots \overline{\theta}l_{k}b) = \overline{\theta}l_{k}b \cdot \overline{$$

Therefore, for any value b, $P(iOJ_1h, ...iPiJ_{k,h}|Y_1, ..., Y_{nn}) = |J_{Y}(I_{N}J_{k,h}+d), iA_{N}J_{k,h}+2, ... iA_{N}J_{k,h}+2)$ when it has two flowers, for any value b and c $P(IOJ_1h_2, c ... iPJ_{k,h}, c | X_1, ... X_{nn}) \propto P(A_1, ... X_{nn}| iP_{N}J_{k,h}, c ... ; iP_{N}J_{k,h}, c ... iP_$

Therefore, for any value b and o, the fore

P(iDilling - iDilkhol 11, - 12m) = Dir(iDillingto, - , iNelkhol 2)

(d) when we use logerin stortegy, we use Jostanian mean to estimate foreinneter. That's to say, we get

(A) William to the standard of the sta

our estimates forcedous one alongs >0, here the tiletand will receipt the terms of the tiletand will receipt the terms of the tiletand will receipt the tiletand will receive the tiletand will receipt the tiletand will receipt the tiletand will receipt the tiletand will receive the tiletand will receive

2.(a)
$$p(x_0, ..., x_1, y_0, ..., y_{m_1}, y_{m_2}, ..., y_1)$$

= $\sum_{y_m} p(x_0) \cdot \overline{x}_1 p(x_1|x_1) \cdot \overline{x}_2 p(y_1|x_1)$

= $p(x_0) \cdot \overline{x}_1 p(x_1|x_1) \cdot \overline{x}_2 p(y_1|x_1) \cdot \overline{x}_2 p(y_1|x_1)$

(i) when $\sum_{y_0} t = 0$,

 $p(x_0) = p(x_0, y_0) = p(y_0|x_0) p(x_0) = \overline{x}_0 \cdot \overline{x}_0 v_0$

when $c < t < m_1$.

 $p(x_0) = p(x_0, y_0) = p(y_0|x_0) p(x_0) = \overline{x}_0 \cdot \overline{x}_0 v_0$

= $\sum_{x_0} p(x_0|x_0) p(x_0|x_0$

= I P(Im/Im), P(Im, you Jin-1) - Z Wyn, In Dr. (7m-1)

when to my 2 th (Ten) = Z When you Oxing 2(XX) similarly

This,

$$\partial L(\lambda t) = \int \frac{\sum \theta_{\lambda t}, \lambda_t \ W_{th}, \lambda_t \ (\lambda t_t)}{\sum_{\lambda t_t} W_{\lambda t}, \lambda_t \ (\lambda t_t)}, \quad \text{octcm, tem ST}$$
 $\sum_{\lambda t_t} W_{\lambda t}, \lambda_t \ \lambda_t \ (\lambda t_t) \qquad t=m$

$$\begin{array}{lll} \beta_{4|3} &=& p \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in I} \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) &=& \sum_{A \in$$

$$||F_{m-1}(\lambda_{m-1})|| = \sum_{n=1}^{\infty} P(|X_{m}|, |Y_{m-1}|, |Y_{n}|, |X_{m-1}|)$$

$$= \sum_{n=1}^{\infty} P(|Y_{m-1}|, |Y_{n}|, |Y_{m}|, |Y_{m-1}|)$$

$$= \sum_{n=1}^{\infty} P(|X_{n}|, |Y_{m-1}|, |Y_{m}|, |Y_{m}|,$$

we find filling values by any war P (Ym / J, " Im+, " YT)

Thus,
$$P(34, \lambda_{44} | y_{0}, \dots, y_{7}) = \frac{2(\alpha_{11} | \beta_{1}(\alpha_{1}))}{\sum_{k} 2(\alpha_{1}) | \beta_{1}(\alpha_{1})} \cdot P(\lambda_{44} | \lambda_{44}) \cdot P(\lambda_{44} | \lambda_{44}) \cdot P(\lambda_{44} | \lambda_{44})}$$

$$= \frac{14(\alpha_{1}) \cdot p_{44}(\lambda_{44})}{p_{4}(\alpha_{1})} \cdot P(\lambda_{44} | \lambda_{44}) \cdot P(\lambda_{44} | \lambda_{44})$$

$$= : y_{4}(\lambda_{1}, \lambda_{44})$$

for each axis, we have

$$h = \frac{1}{2} \log \Omega_{ij} P(1_{i+1}, 1_{i+1}) y_{i}, ..., y_{i}$$

$$= \frac{1}{2} \log \Omega_{ij} P(1_{i+1}, 1_{i+1}) y_{i}, ..., y_{i}$$

$$= \frac{1}{2} \log \Omega_{ij} P(1_{i+1}, 1_{i+1}) y_{i}, ..., y_{i}$$

$$= \frac{1}{2} \log \Omega_{ij} P(1_{i+1}) y_{i}, ..., y_{i}$$

$$= \frac{1}{2} \log \Omega_{$$

For each Way, we have

$$=) \quad W_{iji} = \frac{\sum_{\substack{i:y_i = j \\ \text{tights}}} y_i(i)}{\sum_{\substack{i:y_i = j \\ \text{tights}}} \sum_{\substack{j \in I_i \\ \text{tights}}} y_i(i)} = \frac{\sum_{\substack{i:y_i = j \\ \text{tights}}} y_i(i)}{\sum_{\substack{j \in I_i \\ \text{tights}}} y_i(i)}$$

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