图統計的推定。基礎  $L(0) = \prod_{i=1}^{n} f(\mathcal{I}_i = 0)$ 2(0) = log L(0) = = log f(2i:0) X1, X2 ..., Xn (文), (S)  $Q(\mu, u) = \log \frac{n}{11} \overline{D} \overline{C} C e^{\kappa p} \left(-\frac{(x-\mu)^2}{2C^2}\right)$  $= \log \left( \left( \frac{1}{2\pi u} \right)^n - \frac{1}{2n} \frac{n}{1} \left( 2i - \mu \right)^2 \right)$ E (xi-pl) =  $-\frac{n}{2} \log (2\pi a) - \frac{1}{2n} = \frac{n}{1-1} (2i-\mu)^2$ = I ((xi- 1) + (x-1)2 = 1 (xi-xl2+h2(x-1) (x-xl) (x-xl) (x-xl)

$$\mathcal{L}(u,u) = -\frac{N}{2} \log_2(2\pi u) - \frac{1}{2\pi} \sum_{i=1}^{N} (\pi_i - \mu)^2 \\
= -\frac{N}{2} \log_2(2\pi u) - \frac{NS}{2n}$$

$$u^2 \# \partial \mathcal{L}(u,v)' = \frac{1}{2 \cdot 2\pi u^2} + \frac{1}{2} \cdot \frac{1}{ne}$$

$$-N u = -NS \qquad \mathcal{U} = S$$

$$\mathcal{L}_{i=1}^{N} (\pi_i - \mu_i) \qquad \hat{J} = 1 \cdot \dots, m$$

6散 儿2 = 女

Eo[0]-0:不偏框定量 bo(6)= Eo[0]-0 E[6-01]= (E[6]-01 + Vo[6] bo(0) (1647-2 ワラーメルラオの得式 - 様數小份散不偏性建量 Vo[ô] = Jn(0)-1

不少一情報量

In (0) = Fo [ (20 log + (x1 ... x = 0) | 2]

不一樣重力達數

量活為的十回 P(X=x|T(x)=t,0)=P(X=x|T(x)=t)日の七行統計量 :、74450-・スヤン人分解定理  $f(x=0) = h(x) \times g(T(x), 0)$ 七份統計量的社会也 Ojack = nô-(n-()ô(-) ジャリクナイフ推建 11t27127=5

簡記  
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 $\frac{n^2 \overline{x}}{3} - n = 0 \qquad \eta = \frac{1}{n} \sum_{i=1}^{n} \chi_i$ 

$$\int_{\Lambda} (\Lambda) = - \left[ \int_{\Lambda} \frac{\partial^{2}}{\partial A^{2}} \log L(\Lambda) \right] = \frac{\Lambda}{\Lambda}$$

$$\frac{1}{2} \chi_{1} - \Lambda |_{I} = - \frac{1}{2} \chi_{1}$$

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