$$\frac{3/2/23}{\text{poxella}} = \frac{1}{1270^{2}} e^{-\frac{(x_{2}-x_{3})^{2}}{26^{2}}}$$

$$\frac{x_{1}, x_{2}, \dots, x_{n}}{\text{xid}}$$

$$\frac{\text{poxella}}{\text{poxella}} \times \text{poxella} \times \dots \times \text{poxella}$$

$$\frac{1}{1270^{2}} e^{-\frac{x_{2}}{20^{2}}}$$

$$\frac{1$$

$$I = -E\left[\frac{\partial^2 \ln POS(L)}{\partial L^2}\right] = \frac{1}{\sigma^2}$$

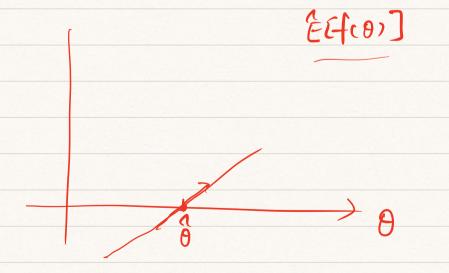
$$Var(h) = \begin{pmatrix} \delta^2 \\ n \end{pmatrix}$$

$$\chi_1, \chi_2, \ldots, \chi_T$$
 μ

$$\begin{cases}
E[X+] = \mu & \Rightarrow \\
E[(X+-\mu)] = \sigma^{2}
\end{cases}$$

$$= \begin{bmatrix}
(X+-\mu)^{2} - \sigma^{2}
\end{bmatrix}$$

$$E\left\{\left(x_{1}\left|L,\sigma^{2}\right)\right\}=0$$



$$\begin{aligned}
& = \left[\begin{bmatrix} f_1 \\ f_2 \end{bmatrix} \left(f_1 f_2 \right) \right] \\
& = \left[f_1 f_2 \right] \\
&$$

$$\frac{\partial \hat{E}(f(x_{i},0))}{\partial \theta'} \qquad \frac{\partial E(f(x_{i},0))}{\partial \theta} \qquad \frac{\partial \hat{E}(f(x_{i},0))}{\partial \theta} \qquad \frac{\partial \hat{E}(f(x_{i$$

$$\frac{\partial \left(\frac{1}{n}\sum_{k=1}^{\infty}((X+-\lambda)-\delta^{2})\right)}{\int_{\infty}^{\infty}} = \frac{1}{n}\sum_{k=1}^{\infty}(2(X+-\lambda)) - \frac{1}{n}\sum_{k=1}^{\infty}(X+-\lambda)$$

$$= -\frac{1}{n}\sum_{k=1}^{\infty}(X+-\lambda)$$

$$(0.1936 - 1.96 \times 0.0142 + 1.96x -)$$

= E [Axx A']

 $= A E \mathcal{E} \times \mathcal{E} \wedge \mathcal$

$$= A S A'$$

x , y ~ ~ ~ ~ ~ ~ ~ ~ ()

X+Y ~N?

X~ N(0, 1)

 $y = \begin{cases} x & if z=0 \\ -x & if z=1 \end{cases}$

y~ N(0,1)

Pr(x+4=0)=1-> > x44 x N

X, X2, ... Xn indep. N(0,1)

Z= { O P (-P

 $x_1^2 + x_2^2 + \cdots + x_n^2 \sim \chi(n)$

 $\times \sim N(0,\Omega) \rightarrow N(0,\Sigma)$

$$\hat{\mathbf{x}} = \hat{\mathbf{\Omega}}^{\frac{1}{2}} \mathbf{A} = \hat{\mathbf{Q}}^{-\frac{1}{2}} \mathbf{A} = \hat{\mathbf{Q}^$$

$$(\Omega^{-\frac{1}{2}}X)'(\Omega^{-\frac{1}{2}}X) = \chi'\Omega^{-\frac{1}{2}}\Omega^{\frac{1}{2}}X = \chi\Omega'X$$

$$X_1, X_2 \sim N(0, \begin{bmatrix} \delta_1^2 & 0 \\ 0 & \delta_2^2 \end{bmatrix})$$

$$\hat{X}_{1} = \frac{X_{1}}{\sigma_{1}}$$

$$\hat{X}_{2} = \frac{X_{2}}{\sigma_{2}}$$

$$\hat{X}_{1} + \hat{X}_{1} \wedge \hat{X}(2)$$