$$\mathcal{L}(P) = \prod_{i=1}^{n} (1-p)^{2\pi} p$$

$$= (1-p)^{2\pi} p^{n}$$

$$\mathcal{L}(P) = \log \mathcal{L}(P) = \log \mathcal{L}(P) \leq \pi + n \log \mathcal{L}(P)$$

$$\mathcal{G}(P) = \frac{d \mathcal{L}(P)}{d P} = \frac{2\pi i}{P-1} + \frac{n}{P}$$

$$Vour [S(P)) = Vour (\frac{2\pi i}{P-1} + \frac{n}{P})$$

$$= \frac{n \operatorname{Var}(\pi)}{(P-1)^{2}} = \frac{n}{(1-p)^{2}} = \frac{n}{(1-p)^{2}}$$

$$Game an expression for CRLB$$

$$CRLB$$

$$Var (T) \geq n (P) = CRP$$

$$Vour (T) = CRP$$

$$Vour$$

