• The Fisher informations of independent samples are additive.

size n from $f(\cdot|\theta)$.

• $nI_{X_1}(\theta)$: interpreted as the information of θ contained in a sample of

information COT (X,Y)=0

 $X \times Y \text{ indep } \Rightarrow I_{X,Y}(\theta) = I_X(\theta) + I_Y(\theta)$

Cor(X.Y)=±1'

less information

 $\frac{\partial/\partial\theta \log f(x|\theta)}{\partial^2/\partial\theta^2 \log f(x|\theta)} = x/\theta - (1-x)/(1-\theta) = (x-\theta)/(\theta(1-\theta)),$ $\frac{\partial^2/\partial\theta^2 \log f(x|\theta)}{\partial^2/\partial\theta^2 \log f(x|\theta)} = -x/\theta^2 - (1-x)/(1-\theta)^2.$ Vo. when x=1

