Secret key Agreement:  

$$S_{x} = f_{x}$$
  
 $S_{x} = f_{x}$   
 $S_{x} = f_{x}$   
 $S_{x,i} = S_{y,i} \sim P_{sxs}$  (iid nullisource)  
 $\forall \varepsilon > 0, \exists codebools sit.$   
 $P[k \neq k] < \varepsilon$   
 $\|P_{k} - U\|_{TV} < \varepsilon$   
 $unif[2^{nR}]$   
 $R \leq I(S_{x,i} \leq y)$ ?

Example: 
$$S_x \sim Bern(\frac{1}{2})$$
  
 $S_y \sim Bern(\frac{1}{2})$  No nate R >0 is achievable.  
 $\mathbb{P}[S_x = S_y] = p \neq \frac{9}{1}$ 

Witzen hausen: Can't even genee on one bit.  
(Sheny: Contelation: (also. Maximol Correlation)  

$$p^{*}(X,Y) = \max_{\substack{u=x \\ u=x-Y-V}} p(u,v)$$
  
 $= \max_{\substack{u=x-Y-V}} p(I,v)$   
 $f, p$   
Tensonizes:  $p^{*}(P_{XY}^{\otimes n}) = p^{*}(P_{XY})$   
 $p^{*}(X,Y) = p^{*}(X,Y)$ 

en v moisote sequences Use number of k