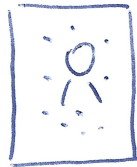


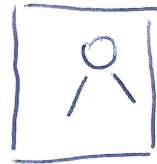
X

$b_x$



Y

$b_y$



X'

$b_{x'}$



Y'

$b_{y'}$

$$H^d(b_x, b_y) \ll H^d(b_{x'}, b_{y'})$$

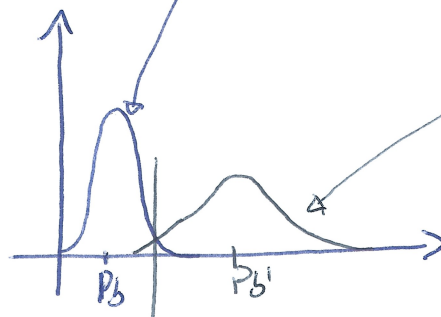
$$P_b \ll P_{b'}$$

$$\Pr[H^d(b_x, b_y) \leq \gamma L] \rightarrow 1$$

$$\Pr[H^d(b_{x'}, b_{y'}) \leq \gamma L] \rightarrow 0$$

$$H^d(b_x, b_y) \sim \beta(L, P_b)$$

$$H^d(b_{x'}, b_{y'}) \sim \beta(L, P_{b'})$$



$\hookrightarrow$  threshold of acceptance

$\Rightarrow P_{\text{miss}}, P_{\text{fa}}$  known!