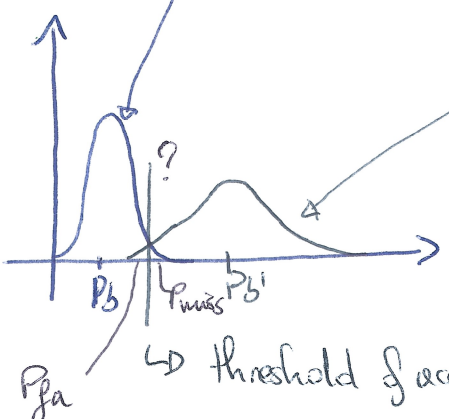
$$H^d(b_x, b_y) \ll H^d(b_{x'}, b_{xy'})$$

$$P_\beta \ll P_{\beta'}$$

$$Pr\left[H^d(b_x, b_y) \leq \gamma L\right] \to 1 \qquad Pr\left[H_0^d(b_{x'}, b_{y'}) \leq \gamma L\right] \to 0$$

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



↳ threshold of acceptance

⇒ P_{miss}, P_{fa} known!

$$P_m = \int_{-\infty}^{\gamma} f(\rho | H_1)\, d\rho$$

$$P_{fa} = \int_{\gamma}^{+\infty} f(\rho | H_0)\, d\rho$$