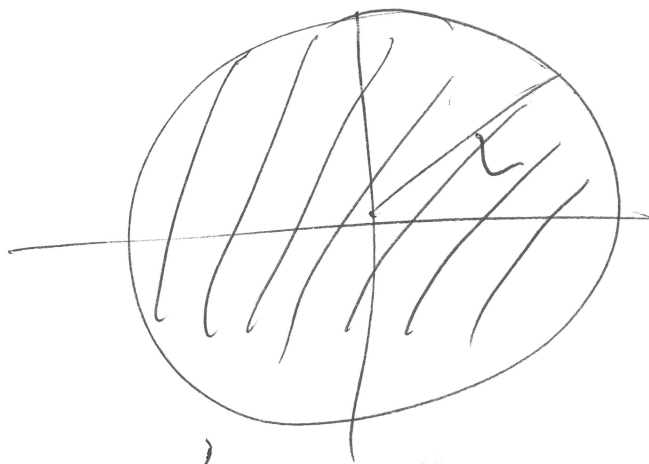


$$P(\beta) = \exp(-c \|\beta\|_2^2)$$

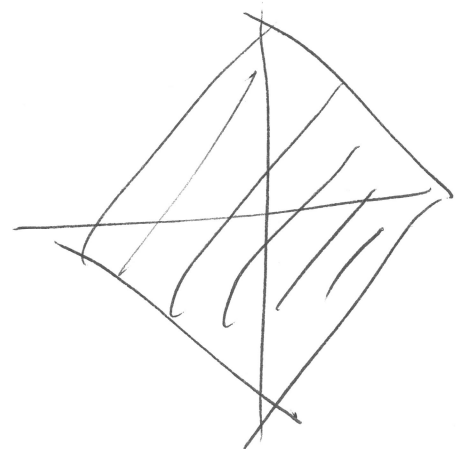
$$-\log P(\beta) = c \|\beta\|_2^2$$

$$\int_{\beta} \{ \mathcal{L}(\beta) + c \|\beta\|_2^2 \}$$

$$\equiv \int_{\beta} \mathcal{L}(\beta) \quad \text{s.t.} \quad \|\beta\|_2^2 \leq L$$

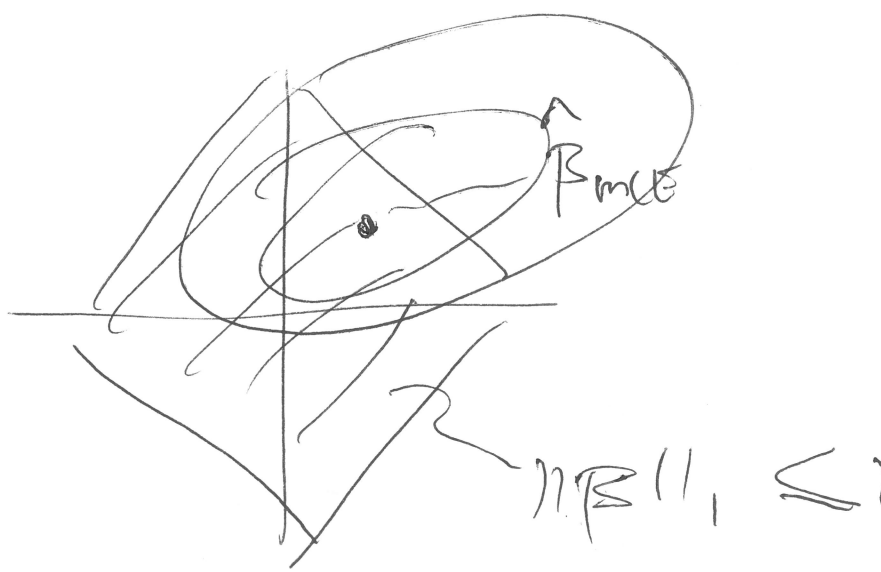


$$\|\beta\|_2 \leq L$$



$$\|\beta\|_1 \leq L$$

$$\|x\|_1 = \sum_j |x_j|$$



$$\begin{aligned} & \inf_{\beta} L(\beta) \\ & \beta \quad \|\beta\|_1 \leq 1 \end{aligned}$$

$$P(y|x) = w^T x$$

$$\forall x \quad P(y=0|x) = \sigma(w^T x)$$

$$\int \left( \mathbb{E} \hat{f}_D(x) - f^*(x) \right)^2 d\mu(x)$$

AT PT X

$$\mathbb{E} \left( \hat{f}_D(x) - \mathbb{E} \hat{f}_D(x) \right)^2$$

AT PT X

