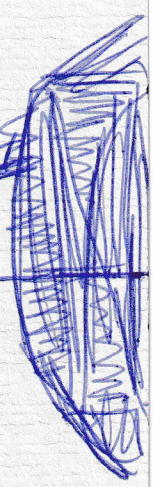
$$\rightarrow \int_{\mathbb{R}^{D+1}} |\det \nabla^2 f(t_0)| \, \mathbb{1}[f(t_0) > u, \text{ index } \nabla^2 f(t_0) = N, M = 0]$$

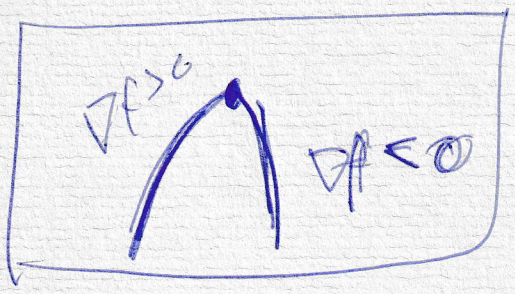
$$P_{\text{true}}(0, \nabla^2 f(t_0), f(t_0), M)$$



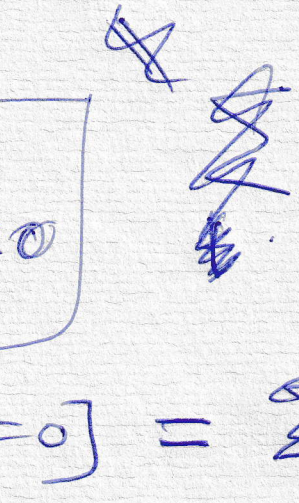
$M=0$ says $\nabla f(t) \neq 0 \quad \forall t \neq t_0$

(or $t_0, t_1, \ldots$ in general the case)

$$\mathbb{1}[M=0] = \{\nabla f(t) \neq 0 \ \forall t \neq t_0\}$$



$$\mathbb{1}[M=0] =$$



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