

$$\sum_{i=1}^{n \text{ sum}} M_i(D) \quad \mathbb{1}[A]$$

is bounded by $\sum_{i=1}^n \frac{1}{i^2}$

$$\frac{1}{n \text{ sum}} \sum_{i=1}^{n \text{ sum}}$$

~~points~~ local maxima above ϵ for which A holds

$$\rightarrow \mathbb{E}[M_n(D) \mathbb{1}[A]]$$

with $\frac{1}{\sqrt{2\pi}}$ a gaussian process

easy as

t_j : loc of j th local maxime.

$M_i(D)$

$$\sum_{j=1}^{M_i(D)} \mathbb{1}[A_{t_j}^j \text{ holds}]$$

$$\mathbb{E}\left[\sum_{j=1}^{M_i(D)} \mathbb{1}[A_{t_j}^j \text{ holds}]\right] \quad \mathbb{P}(A)$$

let

then as

$$\mathbb{P}(X \geq 1) = \mathbb{E}[X]$$

$$\text{as } D = B_\epsilon \rightarrow \epsilon \rightarrow 0$$

$$\mathbb{1}[A_{t_j}^j] \rightarrow \mathbb{1}[A_{t_0}^0]$$

needed to see this

$$\mathbb{P}(X|Y(x|y))$$

$$\mathbb{P}(X|Y(x|y)) = \frac{\mathbb{P}(X, Y(x|y))}{\mathbb{P}(Y(x|y))}$$