

Assume ~~can~~ ~~not~~ $\mu(B + \epsilon \text{Ball}(x)) \leq \epsilon^{n+1}$

then

$$d(t_{n_j}, \partial B) \leq \pi C_\epsilon \text{diam}(B_{n_j})$$

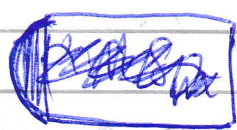
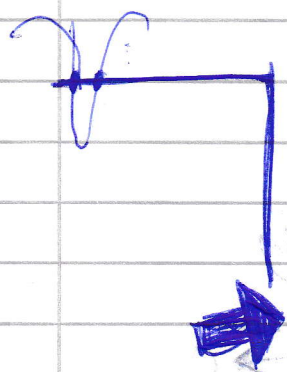
$$\leq \pi C_\epsilon \delta^{1/n+1} \text{diam}(B_{n_j})$$

some const K
and all $\epsilon > 0$

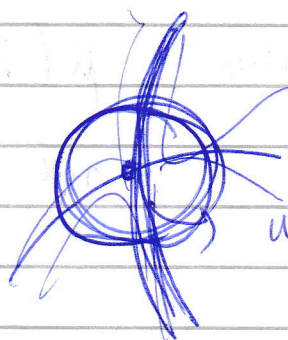
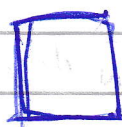
$$\Rightarrow P(A_{n_j} \cap E_\epsilon)$$

$$\leq \int p(z) \mathbb{1}[z \in B + \pi C_\epsilon \delta^{1/n+1} \text{ball}]$$

$$\leq M \mu[B + \pi C_\epsilon \delta^{1/n+1} \text{ball}]$$



$$\propto M \text{diam}(B_{n_j})^{n+1}$$



use of true



could consider a
countable subset