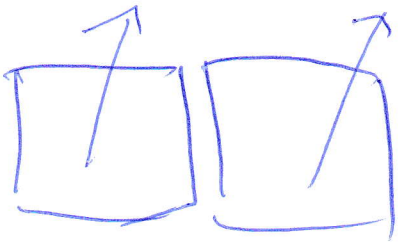
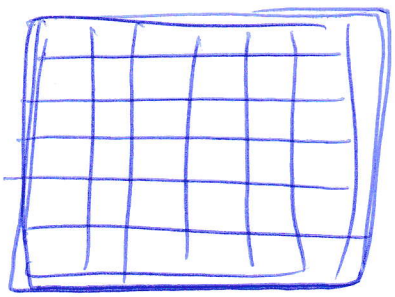


~~$\mathbb{P}(\mu(A)+\mu(B$~~

$\mathbb{P}(\mu(A \cup B) \geq 1)$

$= \mathbb{P}(\mu(A) \geq 1 \cup \mu(B) \geq 1)$

$\leq \mathbb{P}(\mu(A) \geq 1) + \mathbb{P}(\mu(B) \geq 1)$



$\mathbb{P}(\mu(U) \geq 1)$

U ... ε^n divide into cubes of volume $\frac{1}{2^n} \frac{1}{\varepsilon^n}$

$\leq \sum_{c \in \text{cubes}} \mathbb{P}(\mu(c) \geq 1)$

$= \varepsilon^n \mathbb{P}(\mu(c) \geq 1)$

under Stationarity

$= \frac{1}{\varepsilon^n} \mathbb{P}(\mu(U) \geq 1) \geq \mathbb{P}(\mu(\text{cube of vol } \varepsilon) \geq 1)$

$\to 0$!! sadly