BRITISH EMBASSY
BELGRADE

null tode as
out same thru the
volume scales.

To see if T compact so ~~can divide T into~~

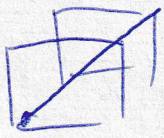
can ~~bound~~ cover T in an N-D box of volume V

Then divide this box into V/d^N boxes of ~~size~~ sides d. (V is fixed)

Then for each box ~~those~~ if box $\cap$ T $\neq \emptyset$.

take a point within the box and gen a ball radius

$d\sqrt{N}$ so the ball contains the box



~~So the set of balls has~~

each ball has volume ~~$\leq$~~ $\leq (2d\sqrt{N})^N$
diam

so all balls have total volume

$$\leq \frac{V}{d^N}(2d\sqrt{N})^N$$

and $\sum_j (2d\sqrt{N})^{N+\delta} = V 2^N (\sqrt{N})^N$

$$\leq d^\delta V 2^N 2^\delta (\sqrt{N})^\delta.$$

take $\delta > 0$. $d \to 0$ and done!