

3 Grestruction "à le Certon"

Rix OZZZI.

In & courder puly Kn of coursect sets contained in [01] such fleet Ko=[0,1] Kn E Km-1, Kn is the weight of 2ⁿ disjoint Intervals of length Sn (cautor Sn = 1/3n) Where Sn is a sepereu ce su chi that 1) Sr < 1 Sm-1 7 for Canton 4 for Canton 4 for SNOT TRUE for a = 932Z) line 2th Sm = O 3) lin 2" Sh = + 00 ex: Sm = 2 - at in check that it works! (1,2,3 stushed!)

K= NKm is a concupe ct set $\mathcal{H}^{\beta}(K) = t \otimes \forall \beta < \alpha$. such that $\mathcal{H}^{\alpha}(K) = O$ it comes pour the fact that 2n 3a - > 0 fluis comes more a een line 2'S -> too (wit to be moved !!) [based on FROSTMAN'S LEMMAJ If this is the dim H(K)= a

 $(4) \forall a \in (0,1)$ JK2 with $\dim_{\mathcal{H}}(k) = \lambda$ $\delta d = 1 - \frac{1}{m}$ -> UKn is a Km set of Housologs dim 1 but $\mathcal{H}^{1}(\mathcal{U}_{n}|\boldsymbol{k}_{n})=O_{-}(\boldsymbol{k}_{n})^{2}$ point 2).





If M is a C^1 1-dim a C^1 curve im $|L^2$ take $M = f_1(t, \gamma(t))$ monfolds -> it is ree'y (at loost) $M \cap (C_1 \times (2) \subseteq \{(t, \gamma(t)) \mid t \in C_1\}$ $\mathcal{H}(Mn(C_1 \times (2)) \leq \mathcal{H}^2(t, \delta(t)), t \in C_1) \leq$ $\leq \mathcal{H}^{1}(C_{1}) \cdot \sqrt{1 + |\dot{r}|_{\infty}^{2}} = 0$