$$m_{\omega}(a) = \sum_{i \in a} 2^{-(i+i)}$$

w上的通信 mu。直接到度 ma

$$m_B \propto \pi R \approx m_B (O(s)) = \prod_{r \leq s} 2^{-(sc)+1}$$

· 香味的酒品到惯 心上了.

(いってきかーからえりをごきるかけではないが)

1-10汉的1273.(47.8年晚)

Somt

M,: null-setのでして対象する.

null-set & be massine 1 a Book ser is £486

Borel set e a zil simil 6. Lebesque 01-121.

M: Lebesque 07 7211 tz n-algobra.

enma 0.9 % TIABBIEL a Barel Treasure ELT

(a) A & Mr. 0 > 0, 2 C: closed, 0: open. 3

s.t. C=A=0, m\_(0-c)<E

(b) AEML = XF. TEGS.

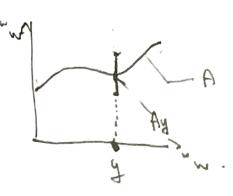
St. XEASY, m, (X)=m, (A)=m, (F).

" Byte is Halmes a "Necessia Thesery Colm "Measure Theory"

Jamma 0.10

A & 2 (WW) : Lebergne 01721.

A: mil @ fix ew : Ay : not milly or null.



· nowhere dense = nud,

型の作品のは、 (中のなり)

- · meager = hand a 01 4, 90.
- · Baire = A D : meagor
- · Bd(o) is had.

Theorem O.11 非空世間等 はmeager 7"12".

X2 & avoid
X1 & avoid
X0 & avoid
Sto.

元の(Sin) EOを致る こうい 13. こうい 13. の(Signa)の以うこゆ らうことにより、 ないにはりいい。

2012 X = U Sty : = a real 12

X = 0 - U X; ~ 733.

Lemma 0.12

A & Ww: Baire,

(a) Ww-A: Baire

(b) 2 G & X. Fr: T.

X & A & Y.

(a): Obvir.

Therem 0.13. (Karata usti Ubum)

(6): ADOST 34 AZOF GS

Ac = (mw) : BP.

A: meager => fy | An irot meager. Is meager.

Section 0

Section 1

K: weatly inaccessible. (w.i.)

60 Kiragular, limor condinal.

Claim:

4: W.i. = a 6 3.

1. WE=K.

2. CEK: dub tà 313"

Est: C:= [a= ( #(cna) = a ]: chib.

3. C=k&wce,

C: 了基础了

C": Paleph 15/22 a 7 502} 12 clib.

≥, →3

1.

2. Pask: |@nal-a7: chib +35 In.

こしかしについては、数2上げででまる。

unbounded 12 3 .. 7 12.

(drinew) (hinew) & Itasica.

dona.

Ln= |out . dn= Ca / \$ \$ \$ \$ 12. R.

supland = supland of = ====== .

· K: (1-wi. so reg.

k: (a+1)-4.1. 00 reg., liner of and.i.

k: δ. mi. => = . B<δ. β-L.i.

N-123: XEOU127117.

V(X) = {a ∈ X / | Xval=a].

= 0x2 / (Pag); a-w-1, 全古

( 12 decreasing trati. ( " x c = that i

· K>w. weatly Mahlo.

@ {PCE: p: fogular } si stationary.

Clair: N.M => reg.

E: reg, (0; icof E) & cf. inc. sag.

00>c1(x) 2 732. (01) a + 20 pal Art 13 club.

2.73 (p. 1.43. tears 100. 2. p.y.

w.M = w.i.

Pupestion 1.1.

k: w.M => k: K-w.i.

Proof: Regar 12 Stationary

Catte (Can Roger a K szata (init pint)

C8 = () Ca

= 31 d club-311 1= \$ 71.3.

Caはd-wil、な夏数の重なであるもめ、

K: reg. 7" totatetad. Eld (and 1) - w.i.

\$11 & 12 K-w.i.

· k: D-w.M. Gareg.

E; (0+1)-v.M. (=) }3 < K: \$; X-V.M.):

E:8-w.M. @ 1 pc8. Bv.M.

XE Du = >+L7.

M(X) = POEX: KAA: Starmy in a? Ears an. M. 10 Ma (Reg).

(Strongly) inaccessible & 17.

K= req, strong him.

Proposition 1.2.

(a) x = Vk . REVK = belck

(b) (VE, E) = 2FC.

(W) =>. Obvi, inace. a TEZ.

(a) & reg. I'l.

(b). Replesement 1×9/

K: Macc. E734.

Carothedons the