Kell - Submit unin-type anditions on. 31/08/2016. 1 = leinang 11 4 Mayle Leyones Mic 20.1 meane Curretin Firster mold: "Refind on" \$ Ric >0. Motivation: figure out Iso >> hulds. Susewann. Let finder apprount to "scalind" work. "Busenann laversty". n ig. d(M, 86) & 1 d(Mo, No). M, r & Georo, M(M, d). and aproch " write of good halls. CAT(0) inequality. n - molpour. d²(n,m)² ≤ ½ d(n,y)²+½ d(n,≥)²··· - tod(4,7).

This is very "Helbertion". > smells haim. Gettig impiration from 1. Space people. d(2,m) < 1, d(2,5) + 1, d(2,2) - = d(5,2). 1 pre unifor.? Smothmun",

Exo. for: all yest. Firsters.

all them see > 0.

all Bernhald wilds. sec > 0. huse wenn fuelius. V: [0,0) -> M, d(re, re)= It-SI. b(n)= lin. t-d(n, v+). { a(n, vo). tas + aus tas - (a++s)=t-a+ no at which brop, by is 1-hipselvitz. Imp. (M.d) i p-unifm. smoth and or a vary then. by is gooden cally removes. Conclus: It (M,d) prunitally smoth, the I correspond to b: M-7 [0,N]. who get computed correspondences substances.

H. Wen) = Sup by (2) mot Sluty of Dec. t sup of rames is corresponding. Busemenn. Cerecavity y, r E Geo[0,2] (M, d). d(r, y) > Ed (r, y). Ex: all Alex (0). · all L' moders of of Alexo(0). · at lear, all Bund gums. of ke 20. Hurdolf man: H's (A) = mf { I in (dim Mi) ": A c Willight dim Mi & S. } Ath (N= sup H's (A). Feler: proce somethis like MCP livers. Lahael properly). Min M>M, nb Tray (+). Atin = { My (+) : yeA My E Greo(My) } Aton du Ni= Pin [Mi). Assure Mi CAi, n (my, intersection, soill get vom).

·dian Vi & 2 dram Mi (via mid port).

3

>> 11/4 (A evi) < .24 Hh (Atzin) midpun of r.

Corolley . It (h,d) Busemann Coneare, of H'(B,60) 200.

Then (h,d) sunsfies (A) MeP (o,n), (A). doubling

(II) Poincere inequality (IV) Dance Poeis (A) number.

Myars => Al-4-e. tangent space are remed spaces.

hi-hipsdritz Splithing the . Ciclea.

Technical lenna: If (m, d) is goodine & proper, and I (le) + ETR Rouths. d(n, lefon)) = It I. and b: M->TR A-hipselvitz. b(le(n))= + + b(n).

Thun, (M,d) extits of lone in a bihipselvitz. way.