Non-matrizability of UMP Harvamorphism of Manifolds

1 Topological Dynaics.

Top. Grop 6.

GAX outins on comport spaces

C-Flows.

X is a Flam, $y \in X$ a cloud subspour s.t 6. YEY (Emb flum)

It X is aflan, I Y = X a mimol suffim. (Zarn's Lena)

I a mind flow M(G)

For my other moral floory M(G) ->

Minal flowy are s.t the is no proper subth.

Ex Any Port xey Gox = >

M(6) is the Universal minimal flow LUMF).

Understandy MLO) is good

Luch of all quoted of MCG) - souch all mel flux. /Vouly -

Parson - UMF 10 netrizon, dynas is nell below

(BIMT?) UMF lang nutrouble - + Y mond flow how a comage use.

Equinmons UMF

Du matrizoble UMF emists?

IF G is locally ampeer (non comput) UMF to now not wisher.

IF G is omport XLX. G.X is apper

6 x = X.

M(Ant(Q, \(\delta\)) = \(\frac{1}{2}\) Remay's Herm. ((6/0% property for set hidring)

Set enleddy - I hurish

M (Ant (G, E)) = Sub } and Range program on suph

Kechris - Patin-To diravic

· Othe results UMA

Puton M(Hono, (S')) = S1

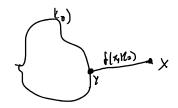
What of off wonteld?

G n M (6) Tre out is Not 3-trus. The Uspus K!j $(0,6,c) \rightarrow (0,6,c)$

Space of mound connected than

Lot X be a compact top. space.

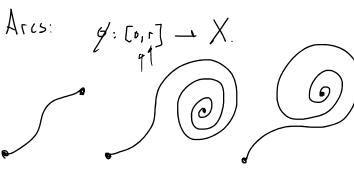
AX = 2 K = X | K is non-odall any pulled

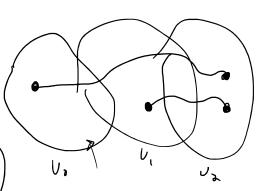


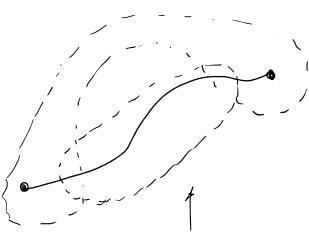
LL+ U; = X. 05,50

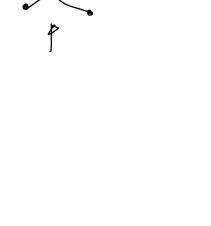
(U0, ..., U1) = { K∈X| K∈UU; KnV; ≠ \$?

Example:



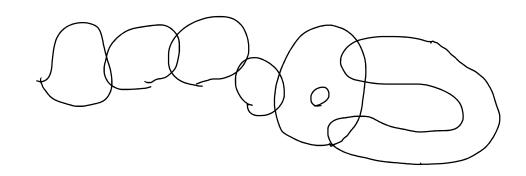






A Juliu in X is a segona of nomens Us, U, ... Un.

- · U; are connected.
- $\begin{array}{cccc}
 & U_{i} \cap U_{i} & \overline{U}_{i} \cap \overline{U}_{i} \\
 & \times & \times
 \end{array}$ iff $i = j \pm 1$.



$$VVX = \begin{cases} c \in VX \mid c \text{ on any ant compact} \end{cases}$$

O(0/U1, ...)

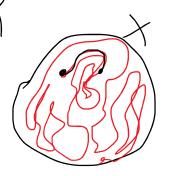
C(X) = { CEVVX | C field gilled E, C is mxml, KEC are all amounts}

C(X2) = { Br {X,]: 16 [0]00}

- Kgs.

(politions myes of the top) -> X

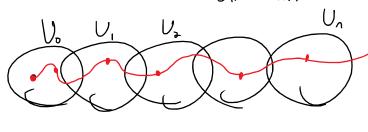
Cp = { \$ [0,1] : 16 [0,0) } U { X } Gutner {Cy} ? ore due m CCX).



These intere a netral books for the topigy. Voj..., Un is a tolu

V (U, ,, Un) = { C & C(X) | C n O(U., ... Un) +k & n}.

cn O(U.)



Thus or about for the topology.

T G AX

G ~ VX

Gallx). & Galm - (LX) & o mint flow

 $Coidle (Xi,Yi) = \frac{2}{2} \frac{|X_i - Y_i|}{2}$