Ideal set of sub spaces of a Euclidean space

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Conjecture 1

1 Prerequisites are only some first chapters of graduate level texts of general 2 topology; (1). **Definition 1.1** (Ideal set in terms of a topological space). Take $\forall (X,T)$ as a 4 topological space where T is the topology. Take $\forall K$ as a set of sub spaces of (X,T). K is said an ideal set (of sub spaces) in terms of (X,T) if (*1 $\stackrel{\text{and}}{\wedge} \dots$ and ∧*3). K is said an ideal(*1) set (of sub spaces) in terms of (X,T) if *1. For convenience, we may omit words inside the parentheses, i.e.," (of sub spaces)". 1. take $\forall (k,j) :\in K^2$, then $\exists f$ as an ambient isotopy in terms of (X,T) such that f takes k to j; Sub definition: (f takes k to j). That is, decompose k as $(X_k, T_k) := k$; then $f[X_k * \{1\}]$ can be regarded as a bijection from X_k to X_j . 17 **2.** take $\forall (K_k, K_j)$ as a pair of subsets of K such that: $\exists f$ as an ambient isotopy 18 in terms of (X,T) such that f takes K_k to K_j ; 20 Sub definition: (f takes K_k to K_j). That is: Define a relation L on $K_k * K_j$ 21 as $(k,j) \in L \equiv (f \text{ takes } k \text{ to } j)$. Then L is a bijection.

$g[X * [0,t]]$ takes K_k to K_j ;	24
As a supplement, needless to say, you need to normalize $g[\ X*[0,t]\]$ to regard it as an ambient isotopy.	252627
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Definition 1.2 (To identify). Take $\forall (s,t)$, then s is said to identify t if it holds that:	29 30
t represents exactly one entity if you assume that s represents exactly one entity.	31 32
For example, let Z be the set of all integers; take $\forall x :\in Z$, then Z is not said to identify x because x represents all members of Z . Contrary, let $y = x + 1$ and $z = y * 2$ then x is said to identify z . Because if we assume that x represents exactly one entity, then z represents exactly one entity.	333435363738
Conjecture 1.1. Take $\forall (X,T,M)$ as a Euclidean space where the topology T is defined by M as a metric table. Needless to say, (X,T,M) is not defined any coordinate system. Take $\forall K$ as an ideal(*1) set in terms of (X,T) such that (X,T,M) identifies K . Then $\exists C$ as a countable collection such that $(*1 \ \land \dots \land *5)$.	39 40 41 42 43
1. take $\forall (K_1, K_2) :\in C^2$;	45
2. K_1 is an ideal set in terms of (X,T) ;	46
3. (X,T,M) identifies K_1 ;	47
4. (K_1, K_2) are disjoint;	48
5. K is a union of C ;	49
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For example, the dimension of (X,T) is 2; $K=K_1\cup K_2$ where $K_{i\in\{1,2\}}=\{x\mid x \text{ is a curved line } \wedge^{\text{and}} \text{ both ends of } x \text{ are open } \wedge^{\text{and}} \text{ length}(x)=i \}$; assuming $K_{\forall i}$ is ideal.	51525354

3. $\exists g$ as an ambient isotopy in terms of (X,T) such that: take $\forall t : \in [0,1]$, then 23

References	55

 $[1] \ \ Glen \ E. \ Bredon, Topology \ and \ Geometry, \ Springer, \ ISBN \ 978-1-4419-3103-0 \\$