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A new direction in functional analysis, called quantum functional analysis, has been developed based on polinormed and multinormed vector spaces and linear algebras. At the same time, normed vector spaces and topological vector spaces play an important role in physics and in control theory.

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Topological Vector Spaces: Grothendieck's Technique (2) In the last article , we introduced Grothendieck's two constructions of new locally convex spaces from a given l.c.s , where  $B$  is a radial, circled and convex subset of  $E$  , and  $C$  is a circled, bounded and convex subset of  $E$  .

*Topological Vector Spaces - Intuitions and Counterexamples*

An invariant pseudometric that doesn't induce a vector topology. Let  $X$  be a non-trivial (i.e.  $X \neq \{ 0 \}$ ) real or complex vector space and let  $d$  be the translation-invariant trivial metric on  $X$  defined by  $d(x, x) = 0$  and  $d(x, y) = 1$  for all  $x, y \in X$  such that  $x \neq y$ . The topology  $\tau$  that  $d$  induces on  $X$  is the discrete topology, which makes  $(X, \tau)$  into a commutative topological group under ...

*Metrizable topological vector space - Wikipedia*

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Definition: Given a vector space over a field (usually  $\mathbb{R}$  or  $\mathbb{C}$ ) and a topology  $\tau$ , we say it is a topological vector space (or t.v.s. for short) if the addition and the scalar multiplication are both continuous, for any  $x, y$ . (In the series of articles, we always assume  $\tau$  is  $T_0$  and thus Hausdorff.). Moreover, we say it is a locally convex if every open neighborhood of 0 contains a convex neighborhood of 0.

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Separable space with non separable dual. An immediate counterexample to the reciprocal of above theorem is the space  $\ell^1(\mathbb{N}, \mathbb{R})$ . It is separable while its dual  $\ell^\infty(\mathbb{N}, \mathbb{R})$  is not.

Separable and non separable space with same dual

*Separability of a vector space and its dual | Math ...*

Counterexamples in topological vector spaces. Berlin ; New York : Springer-Verlag,

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