

The above reasoning can be applied to any product space $X = \mathbb{K}^J$, where $\mathbb{K} = \mathbb{C}$ or \mathbb{R} and J is an arbitrary index set. We have distinguished here a countable J since only in this case is the space $\mathbb{K}^J = (s)$ infinite-dimensional and metrizable. The Problem of Fell and Doran can be trivially solved (by use of Theorem J) for any vector space equipped with the topology τ_{\max}^{LC} , or (as observed in [3], p. 327) with the topology τ_{\max}^w , the maximal weak topology given by means of all seminorms of the form $x \mapsto |f(x)|$, where f is an arbitrary linear functional on the space this question. For τ_{\max}^w all linear subspaces are also closed and all endomorphisms are continuous (it is a minimal locally convex topology with these properties), so that all irreducible representations are algebraically irreducible.

It seems that the infinite products of the field of scalars are the only known locally convex spaces for which the Fell and Doran Problem has an affirmative answer and for which the irreducible representations do not coincide with algebraically irreducible ones. For more information on the Fell and Doran Problem for Banach spaces the reader is referred to [9].

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