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ABSTRACT

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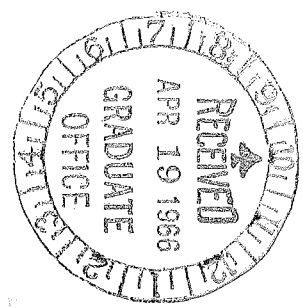
The abstract should be in the form of a brief and concise statement of the main results or points of view of the paper, without demonstrations and with a minimum of formulae. It should not exceed 100 words and should be compressed if possible into a single paragraph. It should be written in the third person. The abstract should be typewritten and in a form suitable for immediate publication in the MONTHLY.

Chains of Different Dimensional Topologies

Bruce A. Anderson

University of Iowa, Iowa City, Iowa

If X is a set with cardinal at least c , there is a sequence T_0, T_1, \dots of complete metric topologies on X such that for each non-negative integer i , T_i contains T_{i+1} and $\dim(X, T_i) = i$. Various types of these "chains" are possible. For example, if $\text{card}(X) = c$, there is a chain such that each T_i is separable; if $\text{card}(X) \geq c$, there is a chain such that each T_i is locally separable.



(16)

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ABSTRACT OF PAPER

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