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Abstracts of Short Communications and Posters

Section:

6. Topology

1991 MS Classification: 54
Chatyrko, V. A., Linköping University, Sweden,
On infinite-dimensional Cantor manifolds
The following is a joint work with E. Pol. Our spaces are metrizable separable. A space is hereditarily strongly infinite-dimensional (h. s. i. d.) if every its subspace is either 0-dimensional or strongly infinite-dimensional. The first example of a h. s. i. d. compactum was given by Rubin. A non-trivial continuum is an infinite-dimensional Cantor manifold if all closed sets which disconnect it are infinite-dimensional.
Theorem. There is a family of continuum many h. s. i. d. Cantor manifolds such that for every two spaces from this family, no open subset of one is embeddable into the other.
Reference: V. Chatyrko, and E. Pol, Continuum many Fréchet types of hereditarily strongly infinite-dimensional Cantor manifolds, Warsaw University **P 98-01** (13) 1998