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ISOMORPHISM OF PRODUCTS OF WEAKLY HOMOGENEOUS SPACES

Jiří Vinárek (Universita Karlova, 18600 Praha, Českoslovens-ko), received 26.9.1979

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There exists a metric space X with the following properties: (1) for every $x,y\in X$ there are open neighbourhoods U, V, $x\in U$, $y\in V$, and a homeomorphism h of U onto V such that h(x)=y (i.e. X is weakly homogeneous),

(ii) X is isometric to X³.
(iii) X is not homeomorphic to X².

This result (as a special case of a representation theorem) will appear in this journal under the title "Representations of countable commutative semigroups by products of weakly homogeneous spaces".