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Section:

6. Topology

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Algebraical equivalences of topological spaces
We present the general aspect of algebraical equivalences of topological spaces. The M-equivalence and A-equivalence of topological spaces are particular cases of this general conception. We prove that in larger classes of spaces the covering dimension, paracompactness, p-paracompactness, lindelöfness and metrizability are invariant properties of all algebraical equivalences.
References: 1. A. V. Arhangel'skii, Classes of topological groups, *Russian Math. Surveys* **36:3** (1981), 151–174; 2. M. M. Choban, Some topics in topological algebra, *Topol. Appl.* **54** (1993), 183–202; 3. M. I. Graev, Free topological groups, *Trans. AMS* **8** (1962), 303–364.