Iqbal, Muhammad Asad; Khan, Moiz Ud Din

Strictly \( s \)-Menger bounded groups. (English) [Zbl 1494.91030]


The authors defined and studied \( s \)-Menger-bounded and \( s \)-Rothberger-bounded groups. They also defined strictly \( s \)-Menger-bounded groups in terms of infinite topological game. It is proved that \( s \)-Menger-bounded and strictly \( s \)-Menger-bounded group structures are preserved under irresolute epimorphism, also every open subgroup of a (strictly) \( s \)-Menger-bounded group is (strictly) \( s \)-Menger-bounded group. It is shown that the class of \( s \)-Menger-bounded groups is not productive in general.

Reviewer: Abderrahmane Bouchair (Jijel)

MSC:

91A44 Games involving topology, set theory, or logic
54C08 Weak and generalized continuity
54D20 Noncompact covering properties (paracompact, Lindelöf, etc.)
54H10 Topological representations of algebraic systems

Keywords:
topological game; irresolute topological group; irresolute mapping; \( s \)-Menger-bounded group; strictly \( s \)-Menger-bounded group

Full Text: DOI