

Computability and Categoricity of Weakly Homogeneous Boolean Algebras and p -Groups

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This paper continues the study of weakly homogeneous structures. It is shown that a countable Boolean algebra is weakly homogeneous if and only if it has finitely many atoms. Hence every countable weakly homogeneous Boolean algebra has a computable copy, and a computable Boolean algebra is weakly homogeneous if and only if it is computably categorical. We also characterize countable weakly homogeneous Boolean algebras in various signatures. The countable weakly homogeneous abelian p -groups are characterized, and it is shown that every such group has a computable copy.