Effective Categoricity of Abelian p-Groups

W. Calvert, D. Cenzer, V. Harizanov, A. Morozov

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Abstract

We investigate effective categoricity of computable Abelian *p*-groups \mathcal{A} . We prove that all computably categorical Abelian *p*-groups are relatively computably categorical, that is, have computably enumerable Scott families of existential formulas. We investigate which computable Abelian *p*-groups are Δ_2^0 categorical and relatively Δ_2^0 categorical.