Morozov, A. S.; Tussupov, D. A.
Minimal predicates for $\Delta$-definability. (English. Russian original) Zbl 07281982
Algebra Logic 59, No. 4, 328-340 (2020); translation from Algebra Logika 59, No. 4, 480-499 (2020).

Summary: We consider two kinds of reducibilities on finite families of predicates on a countable set: the definability of predicates and their complements of one family via another by means of existential formulas with parameters and the same definability on isomorphism types of families. Ordered structures of degrees generated by families of unary predicates are described. It is proved that for both reducibilities, there exist continuum many minimal nonzero degrees.

MSC:
03-XX Mathematical logic and foundations
20-XX Group theory and generalizations

Keywords:
$\Delta$-definability; existential formula; ordered structure of degrees; minimal degrees

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References:

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