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Sergey S. Goncharov* (s.s.goncharov@math.nsc.ru), pr.Acad. Koptug 4, Novosibirsk, 630090, Russia. *DEFINABILITY AND INDEX SETS OF COMPUTABLE MODELS*. Preliminary report.

The main subject of my talk is the study of complexity for definability of classes of computable (=constructive) models [?]. We discuss the problem on complexity for classes of constructive models. We will presented some results about complexity of index sets for classes of autostable models relative to strong constructivizations [?]. We will presented some results of our work with S.Friedman, V.Harizanov, D. Turetsky, E. Fokina about autostable relative to m-computable representations and autostable. We will consider some open problems in this approach: the complexity of computable models with strong constructivization, the complexity of computable models non-autostable but with finite algorithmic dimension n . The research of author was partially supported by grant RFBR 14-01-00376.

References

- [1] Ershov Y. L., Goncharov S. S., Constructive models. N. Y. Consultants Bureau. 2000. 305 p.
- [2] S. S. Goncharov, M.I.Marchuk, “Index set of constructive models that are autostable relative under strong constructivizations ”, J. Math. Sci., New York, Vol. 205, No. 3, March, 368-388 (2015).

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