



Alexei Fest

Alexander V. Mikhalev

Lomonosov Moscow State University

Elementary equivalence of derivative structures of classical and universal algebras and second order logic

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Abstract:

We give a survey of results in this direction for last 50–60 years (with some accents on recent results on elementary equivalence of endomorphism rings and automorphism groups of Abelian *p*-groups (E. I. Bunina, A. V. Mikhalev, and M. Royzner, 2013–2014).