

ON ATOMIC MODELS

K. Zh. Kudaibergenov

The problem is studied of existence of an atomic model over a set. Several conditions are specified under which density of the principal types over a set implies existence of a prime atomic model over this set. An example is constructed demonstrating that density of the principal types over a set does not in general imply existence of an atomic model over this set.

Key words and phrases: atomic model, prime model, superstable theory, locally modular theory of finite rank.

Kudaibergenov Kanat Zhanzakovich
Institute of Mathematics,
480100 Almaty, Kazakhstan.
E-mail: kanat@math.kz

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