

**CARDINALITIES OF DEFINABLE SETS
IN SUPERSTRUCTURES OVER MODELS***K. Zh. Kudaibergenov*

We introduce the notion of a superstructure over a model. This is a generalization of the notion of the hereditarily finite superstructure $\mathbb{H}\mathbb{F}(\mathfrak{M})$ over a model \mathfrak{M} . We consider the question on cardinalities of definable (interpretable) sets in superstructures over λ -homogeneous and λ -saturated models.

Key words and phrases: superstructure over a model, definable set, homogeneous model, saturated model.

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