# Binary $\aleph_0$–categorical Weakly O-minimal Theories

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Let $M = \langle M, <, \ldots \rangle$ be a linearly ordered structure. A subset $B$ of $M$ is *convex* if whenever $a < x < b$ and $a, b \in B$, we have $x \in B$. A *weakly o-minimal structure* is a linearly ordered structure $M = \langle M, <, \ldots \rangle$ such that any parametrically definable subset of $M$ is a finite union of convex sets. We say that a complete *theory* is weakly o-minimal if all its models are weakly o-minimal. Here we prove some properties of binary $\aleph_0$–categorical weakly o-minimal theories. For the obtaining of these results, we use Baizhanov's technique which he has elaborated for classification of one-types in weakly o-minimal theories.

References:

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