



International Conference “Mathematical logic and related problems of mathematics” on the occasion Bektur Baizhanov's 70th birthday



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On almost omega-categoricity in weakly o-minimal theories

The present talk concerns two notions: weak o-minimality and almost omega-categoricity. The notion of weak o-minimality originally and deeply has been studied by D. Macpherson, D. Marker and C. Steinhorn. Real closed fields with a proper convex valuation ring provide an important example of weakly o-minimal structures. Some interesting results on weakly o-minimal theories were obtained by Kazakhstan logicians.

The notion of almost omega-categoricity is closely connected with the notion of Ehrenfeuchtness of a theory. So K. Ikeda, A. Pillay and A. Tsuboi proved that if T is an almost omega-categorical theory with three non-isomorphic countable models then a dense linear order is interpreted in T .

In this talk we present results on almost omega-categorical weakly o-minimal theories obtained for last five years.