Title:
On almost omega-categoricity in weakly o-minimal theories.

Abstract:
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.