

On countably saturated linear orders

Ziemowit Kostana

January 6, 2019

We present some classical and some new results concerning countably saturated linear orders. Most notably, we use notion of dimension for linear orders introduced by Miroslav Novotny in 1950's, to find two non-isomorphic countably saturated linear orders of cardinality continuum, none of them containing (anti)isomorphic copy of ω_2 . This result assumes $2^{\omega_1} = 2^\omega$.