

1112-03-260

David Marker* (marker@uic.edu), Dept Mathematics (MC 249), University of Illinois at Chicago, 851 S. Morgan St., Chicago, IL 60607. *Remarks on uncountable recursively saturated real closed fields.*

We will discuss the following two results.

- 1) There is a family of 2^{\aleph_1} recursively saturated elementarily equivalent ω_1 -like models of PA with isomorphic real closures.
- 2) For any Scott set S there is a recursively saturated real closed field where the types realized are exactly the types coded in S .

The first result is joint with James Schmerl and Charles Steinhorn. The second is joint with Alf Dolich, Julia Knight and Karen Lange. (Received August 06, 2015)