

## **Rigid real closed fields**

David Marker

Shelah showed it was consistent with ZFC that there are arbitrarily large non-Archimedean real closed fields with no non-trivial automorphisms. Later he and Mekler showed this was possible in ZFC. Enayat asked if such fields could be countable. Charles Steinhorn and I constructed a rigid non-Archimedean real closed field of transcendence degree 2. I will discuss this result and some later improvements.