

# SOME MODEL THEORY OF REAL CLOSED RINGS

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The notion of a real closed ring generalizes the notion of a real closed field for the class of commutative rings. Prominent examples (apart from real closed fields) are rings of real valued continuous functions and convex valuation rings of real closed fields. I will give a precise definition of real closed rings and a brief overview of their algebraic properties.

The aim of the talk is then to address model theoretic properties of real closed rings, mainly what happens to Tarski's result on the decidability of the real field in various concrete real closed rings.