

# Definable sets in o-minimal fields with convex subrings

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## Abstract

We let  $R$  be an o-minimal field and  $V$  a convex subring. The class of structures  $(R, V)$  such that the corresponding residue field with structure induced from  $R$  is o-minimal is first order axiomatizable and properly contains the class of all  $T$ -convex structures. We investigate in what other ways this class is well-behaved. This is joint work with Clifton Ealy.