

1134-03-394

**Silvain Rideau\***, silvain.rideau@berkeley.edu, and **Ehud Hrushovski**. *Groups and fields definable in algebraically closed valued fields.*

In this talk, our goal will be to study groups interpretable in algebraically closed valued fields and, in particular those groups that have an invariant stably dominated type as they play a central role.

We will, first, show that all Abelian groups are extensions of groups internal to the residue field by groups that are unions of stably dominated groups. We will then show how stably dominated groups can be described in terms of group schemes over the valuation ring. Finally we will use those results to show that any field interpretable in an algebraically closed is either the valued fields itself or its residue field. (Received September 12, 2017)