

Department of Mathematics, BGU

Logic, Set Theory and Topology

On Tuesday, April, 12 2016

At 12:30 – 13:45

In Math 101-

Yatir Halevi (HUJI)

will talk about

Generically Stable Varieties and Groups in ACVF

Abstract: Generically stable groups and more specifically algebraic groups with generically stable generics were studied by Hrushovski in “Valued fields, Metastable Groups”. We’ll talk about a class of group schemes over the valuation ring definable in ACVF and show that they are generically stable. In fact, we define a functor between the category of algebraic varieties with a Zariski dense generically stable type concentrated on it to generically stable definable schemes over the valuation ring. If everything is over a model, algebraic groups get sent to group schemes. If time permits we may say a few words about strongly stably dominated types.