Department of Mathematics, BGU

Logic, Set Theory and Topology

On Tuesday, December ,29 2015

At 12:15 - 13:40

In *Math* 101-

Salma Kuhlmann (Universität Konstanz)

will talk about

Quasi-order- minimality: a unfiorm approach to o-minimality, C-minimality, p-minimality and variants thereof

Abstract: In the note "Quasi-Ordered Fields" by S. M. Fakhruddin [JPAA 45 (1987) [207-210 the author introduces the notion of a quasi-ordered (q.o.) field and shows the following dichotomy: a q.o. field is either an ordered field or a Krull valued field. We take this approach further to exhibit a theory of q.o. convex valuations. Classical results on (order) convex valuations can be reformulated for q.o. convex valuations in a natural way. In particular, this provides an elegant and unfiorm treatment of lfiting of orderings, coarsening and composition of valuations. In this talk, I will explain the above, focusing on a new concept of "q.o.-minimality" generalizing several existing minimality notions.