

UNIVERSITY OF CRETE
DEPARTMENTS OF MATHEMATICS AND APPLIED MATHEMATICS

LOGIC SEMINAR

11:00am, Wednesday, 20 June, 2018
Room A-303

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Limit groups

Limit groups have been introduced by Z. Sela in his celebrated solution of Tarski's problem (2001). These groups coincide with the long studied class of finitely generated fully residually free groups introduced by Baumslag in 1967. Limit groups have a natural interpretation in many mathematical disciplines: topology, geometric group theory, algebraic geometry and logic to name a few. This fact makes them an interesting class to study and also provides us with an abundance of tools to do so.

In this talk I will present all different points of view on limit groups and survey some basic results about them. Moreover, I will prove the existence of a natural group with interesting universal and homogeneous properties with respect to the class of limit groups, that resembles the relation between an algebraically closed field and the class of fields. This is joint work with O. Kharlampovich and A. Miasnikov.