

Department of Mathematics, BGU

Colloquium

On Tuesday, December ,6 2016

At 14:30 – 15:30

In Math 101-

Chloé Perin (Hebrew University of Jerusalem)

will talk about

First-order logic on the free group and geometry

Abstract: We will give an overview of questions one might ask about the first-order theory of free groups and related groups: how much information can first-order formulas convey about these groups or their elements, what algebraic interpretation can be given for model theoretic notions such as forking independence, etc. It turns out that techniques from geometric group theory are very useful to tackle such problems. Some of these questions have been answered, others are still open - our aim is to give a feel for the techniques and directions of this field. We will assume no special knowledge of model theory.