

# Welcome to International Group Theory Web Seminar

**Mark Sapir,**

***“Conjugacy growth functions of groups”***

**April 22, 12:00pm (New York Time).**

## **Abstract:**

To every finitely generated group one can assign the conjugacy growth function that counts the number of conjugacy classes intersecting a ball of radius  $n$  in the Cayley graph. Results of Ivanov and Osin show that the conjugacy growth function may be constant even if the (ordinary) growth function is exponential. The aim of this talk is to provide conjectures, examples and statements that show that in "normal" cases, groups with exponential growth functions also have exponential conjugacy growth functions. These is a joint work with Victor Guba.

Next presentation:

**April 29.** Dan Segal (Univ. of Oxford) *“TBA”*

