Mathematics, Statistics, and Computer Science   **@ UIC**

Geometry, Topology and Dynamics Seminar

Monotony for boundary representations of free group

Adrian Boyer (Weizmann Institute)

Abstract: I will discuss the ideas of Tim Steger and Gabriella Kuhn to study the irreducible representations of free group and explain how they are related to the standard classification of irreducible presentation of SL(2,R). In particular I will focus on the phenomenon called « Monotony » discovered by Steger an Kuhn. I will explain how some ideas coming from ergodic theory give a new method to prove that large classes of irreducible representations on the boundary of free group satisfy « Monotony » . We prove in particular Schur's orthogonal relations. If I have enough time I will consider the general case of hyperbolic groups to explain which ideas of Steger and Kuhn survive to this general setting.

This is a work in progress in collaboration with Lukasz Garncarek.

Monday, March 14 at 2:00 PM in SEO 636