

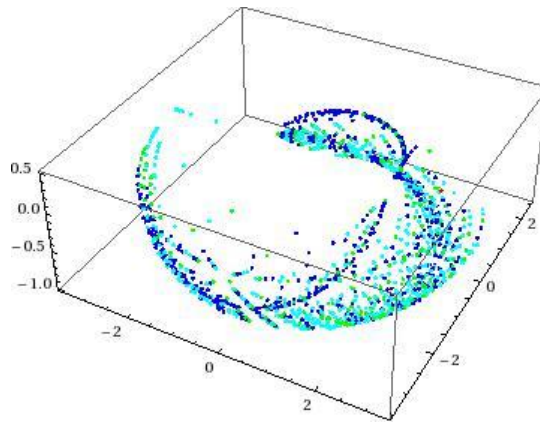
Secret Student Seminar

Experimental Algebra & Geometry Lab

Counting Orbits of Free Group Representations

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Abstract

Let $\text{Hom}(F_r, G)$ denote the collection of representations of a free group of rank r into a group G . In a previous talk, we showed how to count the total number of representations when G is $\text{SL}(n, \mathbb{Z}_p)$ or $\text{GL}(n, \mathbb{Z}_p)$. In this talk, we will focus our attention on $\text{Hom}(F_r, \text{SL}(2, \mathbb{Z}_p))$ and count the number of conjugation orbits; that is, the cardinality of $\text{Hom}(F_r, \text{SL}(2, \mathbb{Z}_p))/\text{SL}(2, \mathbb{Z}_p)$.

Date: Friday, November 11, 2011

Time: 2:00pm–3:00pm

Place: MAGC 1.302

Pizza and soda will be served at the presentation.

For further information or for special accommodations, please contact Dr. Sean Lawton via email at lawtonsd@utpa.edu.