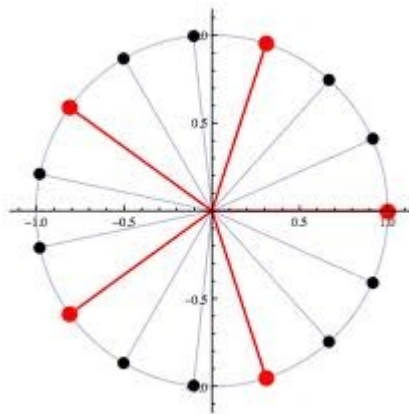


# Student Secret Seminar

## Counting Representations of Free Groups

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### Abstract

The collection of representations of a free group into a Lie group  $G$  corresponds to pointed bundles over a surface with boundary. As these are affine varieties, and thus field independent, we can ask how many points these spaces have over finite fields. In this talk we answer this question for all free groups and when  $G$  is either  $SL(n, \mathbb{Z}_p)$  or  $GL(n, \mathbb{Z}_p)$  where  $p$  is prime. This is joint work with Dr. Sean Lawton.

Date: Friday, April 29, 2011

Time: 4:00pm-5:00pm

Place: MAGC 1.302

*For further information or for special accommodations, please contact Dr. Lawton at [lawtonsd@utpa.edu](mailto:lawtonsd@utpa.edu).*