

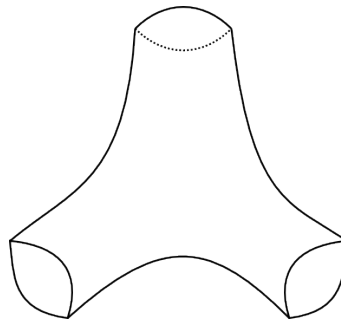
# Secret Student Seminar

Experimental Algebra & Geometry Lab

## Finding Absolutely Irreducible Representations over Finite Fields

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### **Abstract**

Over fields of characteristic 0 the conjugation stabilizer type of a representation can be used to determine if it is irreducible. However, over fields of characteristic  $p > 0$ , this is no longer true. We experimentally determine how to count the 2-dimensional unimodular representations of a punctured sphere group that are reducible yet have minimal stabilizer type. In the case of the 3-holed sphere we give a complete proof. The general case remains a work in progress. This talk represents collaborative work with Dr. Sean Lawton.

Date: Friday, May 3rd, 2013

Time: 2:00pm–3:00pm

Place: MAGC 1.302

**Pizza and soda will be served at the presentation.**