

## ARITHMETIC STATISTICS OF MODULAR SYMBOLS

YIANNIS N. PETRIDIS AND MORTEN S. RISAGER

ABSTRACT. Mazur, Rubin, and Stein have recently formulated a series of conjectures about statistical properties of modular symbols in order to understand central values of twists of elliptic curve  $L$ -functions. Two of these conjectures relate to the asymptotic growth of the first and second moments of the modular symbols. We prove these on average by using analytic properties of Eisenstein series twisted by modular symbols. Another of their conjectures predicts the Gaussian distribution of normalized modular symbols ordered according to the size of the denominator of the cusps. We prove this conjecture in a refined version that also allows restrictions on the location of the cusps.

## 1. INTRODUCTION

Modular symbols are fundamental tools in number theory. By the work of Birch, Manin, Cremona and others they can be used to compute modular forms, the homology of modular curves, and to gain information about elliptic curves and special values of  $L$ -functions. In this paper we study the arithmetical properties of the modular symbol map

$$(1.1) \quad \{\infty, \mathfrak{a}\} \mapsto 2\pi i \int_{i\infty}^{\mathfrak{a}} f(z) dz.$$

Here  $f \in S_2(\Gamma)$  is a holomorphic cusp form of weight 2 for the group  $\Gamma = \Gamma_0(q)$ , and  $\{\infty, \mathfrak{a}\}$  denotes the homology class of curves between the cusp  $\infty$  and  $\mathfrak{a}$ .

For our purposes it is convenient to work with the real-valued, cuspidal one-form  $\alpha = \Re(f(z) dz)$ . The finite cusps  $\mathfrak{a}$  are parametrized by  $\mathbb{Q}$ , so for  $r \in \mathbb{Q}$  we write

$$(1.2) \quad \langle r \rangle = 2\pi i \int_{i\infty}^r \alpha.$$

Note that the path can be taken to be the vertical line connecting  $r \in \mathbb{Q}$  to  $\infty$ .

If  $\mathfrak{a}$  is equivalent to  $\infty$  under the  $\Gamma$ -action such that  $\{\infty, \mathfrak{a}\} = \{\infty, \gamma(\infty)\}$  for some  $\gamma \in \Gamma$  we write the map (1.1) as

$$\langle \gamma, \mathfrak{a} \rangle := \langle \gamma(\infty) \rangle = 2\pi i \int_{z_0}^{\gamma(\infty)} \alpha,$$

where in the last expression we have replaced  $\infty$  by any  $z_0 \in \mathbb{H}^+$ .

Date: March 29, 2017.

2010 *Mathematics Subject Classification*. Primary 11F07; Secondary 11E45, 11M36.

The second author was supported by a Sapere Aude grant from The Danish Council for Independent Research (Grant-Id:0602-02161B). The first author would like to acknowledge the hospitality of the University of Copenhagen during the preparation of the manuscript.

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rotational kinematics in the section on uniform circular motion we discussed motion in a circle at constant speed and therefore constant angular velocity however there are times when angular velocity is not constant rotational motion can speed up

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evaluate problem solving strategies for rotational kinematics just by using our intuition we can begin to see how rotational quantities like  $\theta$ ,  $\omega$  and  $\alpha$  are related to one another for example if a motorcycle wheel has a large angular acceleration for a fairly long time it ends up spinning rapidly and rotates through many revolutions

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