

prof. dr hab. Henryk Iwaniec z Rutgers University

**Problems of equidistribution in arithmetic**

Abstract

I will start with a short review of the history, but most of the time I will focus on recent developments, such as the distribution of points on the sphere, on the hyperbolic plane, on elliptic curves and the roots of quadratic congruences to prime modulus. I will explain these equidistribution results in connection with automorphic L-functions (subconvexity bounds) and various conjectures about the zeros inspired by the random matrix models.