Provisional response to your comments. I present my views.

- 1) TWO THEORIES.
 - (a) Automorphic forms for number fields and function fields of curves over \mathbf{F}_q .
 - (b) Theories over function fields of algebraic curves over C.

The first is the arithmetic theory; the second is the geometric theory.

- 2) MEASURES ON Bun G.
 - (a) For the arithmetic theory this is discrete. The measure is 1 divided by the order of the stabilizer of the point.
 - (b) Here Bun_G is not discrete. The measure is, I hope and believe, given by a Kaehlerian structure, a structure treated in part in Atiyah-Bott.
- 3) HECKE OPERATORS.
 - (a) Over number fields given by functions; over function fields over finite fields given by functions or direct images, as one prefers.
 - (b) Over function fields of algebraic curves over **C**, one needs a passage from direct images to integrals. This will be given, I hope by some form of Gauss-Bonnet, thus some form of the index theorem.
 - (c) For (b) one will need a passage from the geometric objects (your objects) to analytic objects, thus from holomorphic sections to harmonic sections. Such techniques are available. I have to understand them and see whether they are pertinent.

If I understood all these things now, I would just write a paper. I don't, but I need a rest before beginning to study further the literature and trying to construct a theory.

Это пока всё!

Compiled on May 7, 2024 5:11pm -04:00

Compiled on May 7, 2024.