The Hong Kong University of Science and Technology
Department of Mathematics

Seminar on Geometry

The Hecke correspondence for the moduli stack of Shtukas, following L. Lafforgue

By

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Abstract

The moduli stack of Shtukas, which was originally introduced by Drinfeld, has been playing an important role in the proof of Langland correspondence by L. Lafforgue over functional field. Recently Yun-Zhang used the moduli stack of Shtukas to find a remarkable relation between the derivative of L-series and intersection numbers on such moduli stacks.

In this talk I will try to learn what the definition of the moduli of Shtukas is for a smooth projective curve over a finite field, and talked about the Hecke correspondence for the moduli stacks. If time permit, I will talk about what is Laumon's differential Shtukas over fields of characteristic zero, and hope to relate it to the counting theories where we are working on.

Date :  Monday, 4 June 2018
Time:  10:00 a.m. - 12:00 p.m.
Venue: Room 4475, Academic Building (near Lifts 25&26), HKUST

All are welcome!