The Hong Kong University of Science and Technology

Department of Mathematics

<u>Seminar on Geometry</u>

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

By

Prof. Jiang Yunfeng
The University of Kansas

<u>Abstract</u>

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.

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!