



Department of Mathematics
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Representation and Number Theory Seminar

Excursion operators = Hecke operators

by

Dr. Zhiyou Wu

Beijing Internation Center for Mathematical Research

Abstract:

I will explain a proof of the $S=T$ conjecture proposed by Liang Xiao and Xinwen Zhu using Scholze's theory of diamonds and v -stacks, and Fargues-Scholze's geometric Satake equivalence. I will explain the necessary background on Shtukas, and why the new geometric theory developed by Scholze is so natural to attack the conjecture.

Date : November 16, 2021 (Tuesday)

Time : 4:00pm – 5:00pm (Hong Kong SAR)

Zoom link :

<https://cuhk.zoom.us/j/97838822137?pwd=ZTVvSC9abmNjR3RCcS9FTzJNTVhXdz09>

Meeting ID: 978 3882 2137

Passcode : sesame

All are Welcome