HAUSDORFF RESEARCH INSTITUTE FOR MATHEMATICS

UNIVERSITÄT BONN

Conference on
"Global Langlands, Shimura varieties, and shtukas"

August 07 - 11, 2023

organized by
Frank Calegari (Chicago), Ana Caraiani (Bonn/London), Laurent Fargues (Jussieu), Peter Scholze (Bonn)

Time measurement: CEST

- **Monday, August 7**

08:45 - 09:30	*Arrival and Registration*
09:30 - 10:30	**James Newton** *Symmetric power functoriality for Hilbert modular forms*
10:30 - 11:15	*Coffee break*
11:15 - 12:15	**Sarah Zerbes** *Iwasawa theory for the symmetric square of an elliptic curve*
12:15 - 14:00	*Lunch break*
14:00 - 15:00	**Lue Pan** *Some vanishing results for rational completed cohomology of Shimura varieties*
15:00 - 15:30	*Coffee break*
15:30 - 16:30	**Rong Zhou** *Strongly compatible systems associated to abelian varieties*

- **Tuesday, August 8**

09:30 - 10:30	**Cong Xue** *Cohomology sheaves of stacks of shtukas*
10:30 - 11:15	*Group Photo and Coffee break*
11:15 - 12:15	**Linus Hamann** *Geometric Eisenstein Series and Torsion Vanishing*
12:15 - 13:45	*Lunch break*
13:45 - 14:45	**Dennis Gaitsgory** *Geometric Langlands over F_q*
15:00 - 15:30	*Coffee break*

15:30 - 16:30	**Sam Raskin** *AGKRRV with ramification (conjectures)*
16:45 - 17:45	**Xinwen Zhu** *Correspondences between mod p fibers of Shimura varieties*
17:45 - 19:30	*Reception in Plücker hall*

- **Wednesday, August 9**

09:00 - 10:00	**Vincent Pilloni** *p-adic Eichler-Shimura theory and an arithmetic application*
10:00 - 10:30	*Coffee break*
10:30 - 11:30	**Si Ying Lee** *Unramifiedness of galois representations for Hilbert modular varieties*
11:45 - 12:45	**Samit Dasgupta** *On the Brumer-Stark Conjecture and Refinements*
19:00	**Conference Dinner** *Parkrestaurant RheinAue, Ludwig-Erhard-Allee 20, 53175 Bonn - https://rheinaue.de/*

- **Thursday, August 10**

09:30 - 10:30	**Srikanth Iyengar** *Congruence modules in higher codimensions*
10:30 - 11:00	*Coffee break*
11:00 - 12:00	**Matthew Emerton** *Cohomology of Shimura varieties and the categorical Langlands program*
12:00 - 13:45	*Lunch break*
13:45 - 14:45	**Alice Pozzi** *Generalised eigenvalues via Flach classes*
15:00 - 16:00	**Pol van Hoften** *On exotic Hecke correspondences*
16:00 - 16:30	*Coffee break*
16:30 - 17:30	**Chao Li** *Kudla-Rapoport conjecture for Krämer models*

- **Friday, August 11**

09:30 - 10:30	**Yifeng Liu** *Anticyclotomic p-adic L-functions for Rankin-Selberg motives*
10:30 - 11:00	*Coffee break*
11:00 - 12:00	**Vincent Lafforgue** *Progress on local shtukas*