



# Number Theory Seminar

## Hecke orbits on Shimura varieties

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### Abstract

I will talk about the proof of the Hecke orbit conjecture, proposed by Chai and Oort. I will mainly focus on two of the tools that are used. The first main ingredient is a new local result on the monodromy groups of F-isocrystals, which enhances Crew's parabolicity conjecture. Another one is the Cartier-Witt stack constructed by Bhatt-Lurie. This is a joint work with Pol van Hoften.

Date: October 17, 2022 (Monday)  
Time: 3:30 - 4:30pm  
Venue: ZOOM: <https://hku.zoom.us/j/>  
Meeting ID: 232 576 6007

*All are welcome*