

Department of Mathematics, BGU

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# AGNT

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*On Wednesday, June ,10 2026*

*At 14:10 – 15:10*

*In 201*

Kaixing Cao (Hannover)

will talk about

## **Uniqueness of Motivic Fargues-Fontaine Cohomology**

Abstract: The discovery of the Fargues–Fontaine curve has led to major advances in the geometrization of  $p$ -adic Hodge theory. In this talk, we explain how several  $p$ -adic cohomology theories can be realized as vector bundles on the Fargues–Fontaine curve. We then present a motivic approach to show the uniqueness of such vector bundles, which, in particular, yields comparison theorems for them. Moreover, we show that one can choose a canonical comparison isomorphism between these vector bundles.