

千葉大学代数セミナー

数学・情報数理学科



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タイトル：**The Tate conjecture for
Stuhler surfaces**

In 1987, Murty and Ramakrishnan proved the Tate conjecture for Hilbert modular surfaces. In this talk, we report on a joint project with Ambrus Pal to prove the Tate conjecture for equicharacteristic analogues, called Stuhler surfaces. They are moduli spaces of Frobenius-Hecke sheaves, introduced by Stuhler in 1986, and are a special case of stacks of G -shtukas. We will explain the similarities with Hilbert modular surfaces, and how to use p -adic cohomology to replace analytical tools. For example, a key ingredient in the proof is the semistable Lefschetz $(1,1)$ -theorem of Lazda-Pal.

日時：**2019年4月26日(金) 16:30~17:30**

場所：**理学部1号館3階320セミナー室**

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