



复旦大学数学科学学院 数学综合报告会

报告题目: Breuil-Strauch conjecture for the Lubin-Tate space of dimension 1

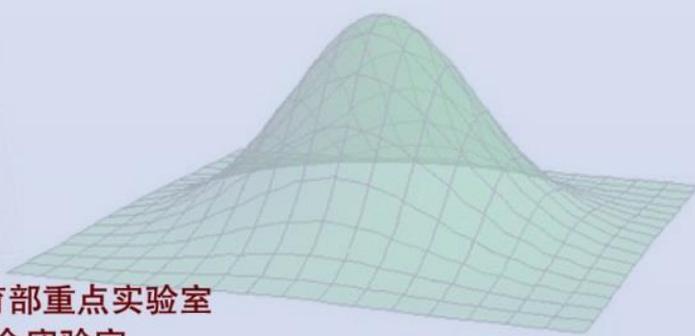
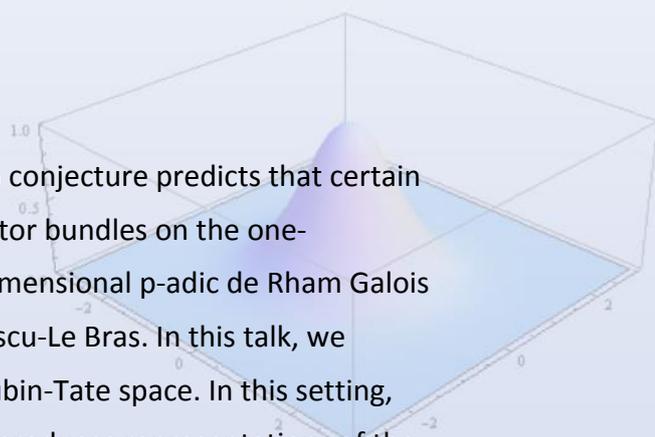
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时间: 2026-03-13 星期五 16:00-17:00

地点: 光华楼东主楼 2001

报告摘要:

In the p -adic local Langlands program, the Breuil-Strauch conjecture predicts that certain representations of $GL_2(\mathbb{Q}_p)$, arising from equivariant vector bundles on the one-dimensional Drinfeld space, are closely related to two-dimensional p -adic de Rham Galois representations. This conjecture was proved by Dospinescu-Le Bras. In this talk, we present an analogous picture for the one-dimensional Lubin-Tate space. In this setting, the cohomology of equivariant vector bundles naturally produces representations of the unit group of the non-split quaternion algebra over \mathbb{Q}_p , which may be viewed as the Jacquet-Langlands counterpart of $GL_2(\mathbb{Q}_p)$. Using global methods introduced by Lue Pan, we explain how these representations relate to p -adic Galois representations and clarify certain features of the p -adic Jacquet-Langlands correspondence. This is joint work with Benchao Su and Zhenghui Li.



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