東北大学理学部数学科
東北大学大学院理学研究科数学専攻
Mathematical Institute, Tohoku University

Seminar

March 2025

2025.3.14（Fri）

Algebra Seminar (15:30--17:00【Venue: Mathematics Building 201】)

Please note: Please note: The seminar date has been changed from March 7 to March 14.
Speaker : Sebastian Bartling (University Duisburg-Essen)
Title : Rapoport-Zink spaces and close p-adic fields.
Abstract :
Rapoport-Zink spaces are moduli spaces of p-divisible groups (with extra structure). These are p-adic analogues of integral models of Shimura varieties. Their function field versions were introduced by Hartl-Viehmann. I want to explain a construction approximating Hartl-Viehmann spaces via Rapoport-Zink spaces using the philosophy of close p-adic fields. If time permits I want to sketch how one may use this construction to deduce the Arithmetic Fundamental Lemma in the function field case. This is joint work, partly in progress, with Andreas Mihatsch.