



Leibniz  
Universität  
Hannover

# Oberseminar

## Institut für Algebraische Geometrie

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### The tame fundamental group of a rigid space

The étale fundamental group of a rigid space in positive or mixed characteristic is not well behaved regarding finiteness and base change properties. These problems can be attributed to wild ramification phenomena in the special fibre. In a joint project with Piotr Achinger, Marcin Lara, and Jakob Stix we defined and keep investigating the tame fundamental group of a rigid space. It is a quotient of the étale fundamental group that takes into account only covering spaces that are tame in an appropriate sense. We show finite generation of this fundamental group by relating it to the Kummer étale fundamental group of the special fiber of a semistable formal model with additional tameness conditions. Consequently, we study covering spaces in log geometry and eventually trace our objects of interest back to étale coverings of schemes.

**Donnerstag, 21.05.2026, 16:30 - 17:30, F142.**

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**Alle Interessierten sind herzlich eingeladen.**