Fachbereich 10
Mathematik und
Informatik

WiSe24/25

The seminar aims to understand the model theory of the field of Witt vectors over an infinite perfect field when endowed with the canonical lift of the Frobenius, the Witt-Frobenius. *We will first go through the classical relative quantifier elimination for henselian valued fields in equicharacteristic zero, deducing the* Ax-Kochen/Ershov theorem *for both equicharacteristic zero and unramified mixed characteristic. We will then prove analogous theorems for isometric valued difference fields in equicharacteristic zero, deducing the Ax-Kochen/Ershov theorem for both equicharacteristic zero and unramified mixed characteristic (i.e., the Witt-Frobenius).*

MODEL THEORY of the WITT-FROBENIUS

Contacts
M. Hils - *hils@uni-muenster.de*
S. Ramello - *sramello@uni-muenster.de*

Planning meeting
09.07.2024, 2pm
Lichthof, 8th floor Einsteinstr. 62