

Workshop
“Definability in Number Theory and Arithmetic Geometry”

October 20 - 24, 2025

organized by
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Time measurement: CEST

• Monday, October 20

09:00 - 09:25	<i>Arrival and Self-Registration</i>
09:25 - 09:30	<i>Welcome by HIM Director Stefan Müller</i>
09:30 - 10:30	Philipp Hieronymi <i>A strong version of Cobham’s theorem</i>
10:30 - 11:15	<i>Coffee break</i>
11:15 - 12:15	Arno Fehm <i>Linear equations with valuation constraints</i>
12:15 - 14:30	<i>Lunch break</i>
14:30 - 15:30	Raf Cluckers <i>Finiteness and Diophantine results in Hensel minimal structures</i>
15:30 - 16:15	<i>Coffee break</i>
16:15 - 17:15	Margaret Bilu <i>Euler products in arithmetic and geometry</i>
from 17:15 on	<i>Get-Together</i>

• **Tuesday, October 21**

09:30 - 10:30	Carlo Pagano <i>Hilbert tenth problem for finitely generated rings</i>
10:30 - 11:15	<i>Coffee break</i>
11:15 - 12:15	Ari Shnidman <i>Rank stability in quadratic extensions and Hilbert's 10th problem</i>
12:15 - 14:30	<i>Group photo and lunch break</i>
14:30 - 15:30	Arix Eggink <i>Diophantine Maps and Hilbert's Tenth Problem for some Noncommutative rings</i>
15:30 - 16:15	<i>Coffee break</i>
16:15 - 17:15	Philip Dittmann <i>Hilbert's 10th Problem in power series rings with parameters</i>

• **Wednesday, October 22**

09:00 - 10:00	Marta Pieropan <i>Counting Campana points of bounded height</i>
10:00 - 10:30	<i>Coffee break</i>
10:30 - 11:30	Floris Vermeulen <i>On Serre's thin set conjecture</i>
11:30 - 11:45	<i>Break</i>
11:45 - 12:45	Jochen Koenigsmann <i>Fields with the absolute Galois group of $\mathbb{Q}$</i>

• **Thursday, October 23**

09:30 - 10:30	Vincenzo Mantova <i>Updates on the exponential-algebraic closedness</i>
10:30 - 11:15	<i>Coffee break</i>
11:15 - 12:15	Franz-Viktor Kuhlmann <i>On certain definable coarsenings of valuation rings and their applications</i>
12:15 - 14:30	<i>Lunch break</i>
14:30 - 15:30	Konstantinos Kartas <i>Nonstandard methods in almost mathematics</i>
15:30 - 16:15	<i>Coffee break</i>
16:15 - 17:15	Nicolas Daans <i>Existential first-order definitions of valuations in function fields</i>

• **Friday, October 24**

09:30 - 10:30	Julian Demeio <i>The Grunwald Problem for solvable groups</i>
10:30 - 11:15	<i>Coffee break</i>
11:15 - 12:15	Tingxiang Zou <i>Pairs and stable completions of difference varieties</i>
12:15 - 14:00	<i>Lunch break</i>
14:00 - 15:00	Tom Scanlon <i>The logical complexity of finitely generated algebras</i>