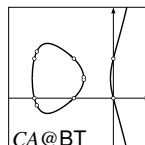


UNIVERSITÄT
BAYREUTH



CHAIR OF
COMPUTER ALGEBRA

Workshop Program 'Rational Points 2015'

(tentative)

Sunday, June 28

Arrival
from 15:00 *Coffee and Snacks*
18:30–21:00? *Dinner*

Monday, June 29

08:00–09:00 *Breakfast*
09:00–09:15 Michael Stoll: *Opening and Welcome*
09:30–10:30 Samir Siksek: **On the generalized Fermat equation $x^{2\ell} + y^{2m} = z^p$**
10:30–11:15 *Coffee*
11:15–12:15 Tim Dokchitser: **Odd and even 2-Selmer ranks for hyperelliptic curves**
12:30–13:30 *Lunch*
15:00–16:00 *Coffee*
16:00–16:45 Michael Stoll: **Chabauty without the Mordell-Weil group**
17:00–17:30 Ed Schaefer:
Explicit descent for Jacobians of prime power cyclic covers of $\mathbb{P}^1$
17:45–18:15 Rachel Newton: **The proportion of failures of the Hasse norm principle**
18:30–19:30 *Dinner*
20:00–? **Open Problems**

Tuesday, June 30

08:00–09:00 *Breakfast*
09:30–10:30 Stefan Wewers:
An introduction to Minhyong Kim's approach to rational points
10:30–11:15 *Coffee*
11:15–12:15 Jennifer Balakrishnan: **Variations on quadratic Chabauty**
12:30–13:30 *Lunch*
15:00–16:00 *Coffee*
16:00–16:30 Netan Dogra: **Linearisation of Selmer varieties and applications**
16:45–17:30 Steffen Müller: **Canonical heights on genus-2 Jacobians**
17:45–18:15 Nils Bruin:
Twists of the elliptic modular surface of level 4 and visibility of $\text{III}[4]$
18:30–19:30 *Dinner*

Wednesday, July 1

08:00–09:00 *Breakfast*
09:30–10:30 Joe Rabinoff: **p -adic analytic spaces and integration**
10:30–11:15 *Coffee*
11:15–12:15 Eric Katz:
Uniform bounds on rational points on curves of low Mordell-Weil rank
12:30–13:30 *Lunch*
Free Afternoon, *Coffee* and *Dinner* on request

Thursday, July 2

08:00–09:00	<i>Breakfast</i>
09:30–10:30	David Harari: Arithmetic duality theorems and rational points (some results and conjectures)
10:30–11:15	<i>Coffee</i>
11:15–12:15	Ulrich Derenthal: Strong approximation and descent
12:30–13:30	<i>Lunch</i>
15:00–16:00	<i>Coffee</i>
16:00–16:30	Dan Loughran: Counting failures of weak approximation
16:45–17:15	Christopher Frei: Manin’s conjecture for a singular del Pezzo surface over number fields
17:30–18:00	Marta Pieropan: Generalized Cox rings over non-closed fields
18:30–19:30	<i>Dinner</i>

Friday, July 3

08:00–09:00	<i>Breakfast</i>
09:30–10:30	Alexei Skorobogatov: Variation of the Selmer group of quadratic twists and the Hasse principle for Kummer varieties
10:30–11:15	<i>Coffee</i>
11:15–12:15	Jerry Wang: Rational points on hyperelliptic curves over odd degree extensions
12:30–13:30	<i>Lunch</i>
15:00–16:00	<i>Coffee</i>
16:00–16:45	Manjul Bhargava: Bounds on the 2-torsion in class groups of number fields and integral points on elliptic curves
17:00–17:30	Levent Alpöge: Bounds for the average number of integral points on elliptic curves
17:45–18:15	Ronald van Luijk: Concurrent lines on del Pezzo surfaces
18:30–19:30	<i>Dinner</i>

Saturday, July 4

08:00–09:00	<i>Breakfast</i>
09:30–10:30	Bianca Viray: Arithmetic of Enriques surfaces
10:30–11:00	<i>Coffee</i>
11:00–11:30	Kęstutis Česnavičius: p-Selmer growth in extensions of degree p
11:45–12:15	Martin Bright: Arithmetic of diagonal quartic surfaces (following Swinnerton-Dyer)
12:30–13:30	<i>Lunch</i>
15:00–16:00	<i>Coffee</i>
16:00–16:45	David Holmes: Néron models and heights in families
17:00–17:30	Cecília Salgado: Classification of elliptic fibrations on certain K3 surfaces
18:30–19:30	<i>Dinner</i>

Sunday, July 5

08:30–09:30	<i>Breakfast</i>
	<i>Departure</i>