

Johannes Kepler Research Center Regensburg
DFG Research Group „Algebraic Cycles and L-Functions“

Final Workshop

27th February – 2nd March 2012

Organizers: Annette Huber-Klawitter, Uwe Jannsen, Guido Kings,
Klaus Künnemann, Alexander Schmidt

All lectures take place in room H 31 at the Math building
Coffee will be served in room M 103

Monday, 27.02.2012

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| 8.15 – 9.00 | Registration in room M 103 |
| 9.00 – 10.00 | Gerd Faltings: Rational points and motivic cohomology |
| 10.00 – 10.30 | <i>Coffee break</i> |
| 10.30 – 11.30 | John Coates: Evidence for the non-commutative main conjectures for modular forms of weight strictly bigger than 2 |
| 11.30 - 12.00 | <i>Coffee break</i> |
| 12.00 – 13.00 | Peter Schneider: Hecke algebras in their natural characteristic are Gorenstein |
| 13.00 – 14.30 | <i>Lunch break</i> |
| 14.30 – 15.30 | Claire Voisin: The generalized Hodge and Bloch conjectures are equivalent for general complete intersections |
| 15.30 – 16.30 | <i>Coffee break</i> |
| 16.30 – 17.30 | Peter Jossen: Tate motives and Leopoldt's conjecture |

Tuesday, 28.02.2012

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| 9.00 – 10.00 | Atsushi Moriwaki: Birational Arakelov Geometry |
| 10.00 – 10.30 | <i>Coffee break</i> |
| 10.30 – 11.30 | Antoine Chambert-Loir: Differential forms and currents on Berkovich spaces |
| 11.30 – 12.00 | <i>Coffee break</i> |
| 12.00 – 13.00 | José Ignacio Burgos Gil: Arakelov theory of toric varieties, positivity properties |
| 13.00 – 14.30 | <i>Lunch break</i> |
| 14.30 – 15.30 | Bruno Kahn: Zeta and L-functions of triangulated motives |
| 15.30 – 16.30 | <i>Coffee break</i> |
| 16.30 – 17.30 | Matthias Wendt: Homology of linear groups over polynomial rings |

Wednesday, 29.02.2012

9.00 – 10.00	Ramdorai Sujatha: Derived functors of unramified cohomology
10.00 – 10.30	<i>Coffee break</i>
10.30 – 11.30	David Harari: The unramified Brauer group of a homogeneous space
11.30 – 12.00	<i>Coffee break</i>
12.00 – 13.00	Tamás Szamuely: Fundamental groups and Brauer groups of algebraic groups <i>Lunch</i>
15.30 – 17.00	<i>Excursion</i>

Thursday, 01.03.2012

9.00 – 10.00	Hélène Esnault: Divisibility of the Chow group of 0-cycles over local valued fields with algebraically closed residue field
10.00 – 10.30	<i>Coffee break</i>
10.30 – 11.30	Gisbert Wüstholz: Periods of Integrals
11.30 – 12.00	<i>Coffee break</i>
12.00 – 13.00	Jürg Kramer: Arithmetic intersections on modular curves
13.00 – 14.30	<i>Lunch break</i>
14.30 – 15.30	Kenichi Bannai: On the Eisenstein class for Hilbert-Blumenthal surfaces
15.30 – 16.30	<i>Coffee break</i>
16.30 – 17.30	Georg Tamme: Karoubi's p-adic regulator and the syntomic regulator
19.00	Conference dinner at Leerer Beutel

Friday, 02.03.2012

9.00 – 10.00	Marc Levine: Index and Euler characteristic and cobordism
10.00 – 10.30	<i>Coffee break</i>
10.30 – 11.30	Thomas Geisser: Duality for Z-constructible sheaves on curves over finite fields
11.30 – 12.00	<i>Coffee break</i>
12.00 – 13.00	Shuji Saito: Cohomological Hasse principle and Mc Kay principle