

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

**Final Workshop**

27<sup>th</sup> February – 2<sup>nd</sup> 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**

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	Hélène Esnault: Divisibility of the Chow group of 0-cycles over local valued fields with algebraically closed residue field
15.30 – 16.30	<i>Coffee break</i>
16.30 – 17.30	Peter Jossen: Tate motives and Leopoldt's conjecture

**Tuesday, 28.02.2012**

9.00 – 10.00	Jürg Kramer: Arithmetic intersections on modular curves
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	Claire Voisin: The generalized Hodge and Bloch conjectures are equivalent for general complete intersections
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	Atsushi Moriawaki: Birational Arakelov Geometry
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 $\mathbb{Z}$ -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