

Dreizehnter Karlsruher Weihnachtsworkshop zur Geometrie und Zahlentheorie

December 15 to 17, 2015

Program

Tuesday, December 15

9:30 Reception Tea in the Mathematics building, room 1.058

10:00 – 11:00 Harry Baik (Bonn) *Orderability, laminarity, and geometry of groups*

11:15 – 12:15 Nir Lazarovich (Zürich) *Sphere boundaries of hyperbolic groups*

L u n c h b r e a k

14:00 – 15:00 Lucio Guerberoff (London) *Period relations for certain automorphic motives*

15:15 – 16:15 Miriam Schwab (Karlsruhe) *On congruences between special L -values*

16:45 – 17:45 Mladen Dimitrov (Lille) *Automorphic symbols and p -adic L -functions*

Wednesday, December 16

8:45 – 9:45 Kolja Hept (Frankfurt) *Pseudo-real multiplication and an application to Teichmüller curves*

10:00 – 11:00 Martin Herrmann (Karlsruhe) *Curvature operator and cohomology ring*

11:30 – 12:30 Robert Kucharczyk (Zürich) *24 , 12 and the secrets of the modular group*

L u n c h b r e a k

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| 14:00 – 15:00 | Jakob Stix (Frankfurt) | <i>Gorenstein orders and abelian varieties over finite fields</i> |
| 15:15 – 16:15 | Georg Rück (Kassel) | <i>On Drinfeld automorphic forms</i> |
| 16:45 – 17:45 | Bernhard Köck (Southampton) | <i>Operations on higher K-groups revisited</i> |
| from 19:00 | Weihnachtsfeier in the jubez-café | |

Thursday, December 17

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| 8:45 – 9:45 | Albrecht Brehm (Rostock) | <i>Cusp multiplicity and cusp width of finite index subgroups of virtually free groups</i> |
| 10:00 – 11:00 | Martin Kalck (Edinburgh) | <i>Matrix factorizations: Knörrer's periodicity and beyond</i> |
| 11:30 – 12:30 | Franziska Schroeter (Hamburg) | <i>Interpretations of Block-Göttsche invariants</i> |
| L u n c h b r e a k | | |
| 14:00 – 15:00 | Tobias Columbus (Karlsruhe) | <i>Quasi-categories of spectra</i> |
| 15:15 – 16:15 | Urs Schreiber (Bonn) | <i>Differential cohesion in arithmetic geometry</i> |

All talks will take place in **Seminarraum 1.067** in the Mathematics building (building 20.30).
Address: Kollegengebäude Mathematik, Englerstraße 2, 76133 Karlsruhe

Contact persons:

Prof. Dr. Frank Herrlich, Tel.: +49/721 608 43194, herrlich@kit.edu

JProf. Dr. Gabriela Weitze-Schmithüsen, Tel.: +49/721 608 43700, weitze-schmithuesen@kit.edu