

Siebter Karlsruher Weihnachtsworkshop zur Geometrie und Zahlentheorie

December 14 to 16, 2009

Program

Monday, December 14

- 9:15 Reception Tea in the Allianz building, room 5C-01.1
- 10:00 – 11:00 Ursula Hamenstädt (Bonn) *The geometry of the handlebody group*
- 11:15 – 12:15 Alexander Heß (Bonn) *Hilbert uniformization as a cell structure for moduli space*

L u n c h b r e a k

- 14:00 – 15:00 Annette Huber-Klawitter (Freiburg) *p -adic periods for reductive groups*
- 15:15 – 16:15 Matthew Bainbridge (Aarhus) *Diophantine geometry and finiteness results for Teichmüller curves*
- T e a / c o f f e e b r e a k in room 5C-01.1 (Allianz building)
- 17:00 – 18:00 Mikhail Belolipetsky (Durham) *Counting arithmetic surfaces and 3-manifolds*

Tuesday, December 15

- 09:00 – 10:00 Richard Weidmann (Edinburgh) *Foldings and the rank of Coxeter groups*
- 10:15 – 11:15 Jan-Christoph Schlage-Puchta (Gent) *Construction of a large p -group*
- 11:30 – 12:30 Joachim Breitner (Karlsruhe) *Loop subgroups of F_n and the images of their stabilizer groups in $\mathrm{GL}_n(\mathbb{Z})$*

L u n c h b r e a k

- 14:00 – 15:00 Martin Möller (Bonn) *Derivatives of Theta-functions and Teichmüller curves*
- 15:15 – 16:15 Slavyana Geninska (Karlsruhe) *The limit set of subgroups of arithmetic groups in $\mathrm{PSL}(2, \mathbb{R})^r$*
- T e a / c o f f e e b r e a k in room 5C-01.1 (Allianz building)
- 17:00 – 18:00 Karsten Kremer (Karlsruhe) *Invariants of complex and p -adic origamis*

from 19:30 **Weihnachtsfeier in room 5C-01.1 (Allianz building)**

Wednesday, December 16

10:00 – 11:00 Samuel Lelièvre (Paris) *Ehrenfest wind-tree models: periodic directions, recurrence, diffusion*

11:15 – 12:15 Corentin Boissy (Marseille) *On two definitions of Rauzy classes*

L u n c h b r e a k

14:00 – 15:00 Thomas Willging (Karlsruhe) *Extremal ternary lattices*

15:30 – 16:30 Bernhard Mühlherr (Gießen) *Affine Moufang buildings of type \tilde{C}_2*

All talks will take place in the **seminar room S 11 in the building 20.30** (the *old department building*). Address: Englerstr. 2, 76131 Karlsruhe.

The reception and the tea breaks will be in **room 5C-01.1 in the building 05.20** (present department building called *Allianz building*).

Address: Kaiserstraße 89-93, 76133 Karlsruhe.

See <http://www.math.kit.edu/seite/besucher/en> for a location plan

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