**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*

**Lunch break**

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*

**Tea/coffee break** 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 $\text{GL}_n(\mathbb{Z})$*

**Lunch break**

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 $\text{PSL}(2,\mathbb{R})^*$*

**Tea/coffee break** 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*

Lunch break

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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