

## Neunter Karlsruher Weihnachtsworkshop zur Geometrie und Zahlentheorie

December 19 to 21, 2011

### Program

#### Monday, December 19

- 9:30 Reception Tea in the *A l l i a n z* b u i l d i n g , room 5C-01.1
- 10:00 – 11:00 Gareth Jones (Southampton) *Beauville surfaces and groups*
- 11:15 – 12:15 Amir Džambić (Frankfurt) *Fake quadrics uniformized by the bidisc*

#### L u n c h b r e a k

- 14:15 – 15:15 Maria Axenovich (Karlsruhe) *On Ramsey-type problems*
- 15:30 – 16:30 Moritz Minzloff (Berlin) *Computing zeta functions of curves with  $p$ -adic cohomology*
- 17:00 – 18:00 Enrico Leuzinger (Karlsruhe) *Higher dimensional Dehn functions*

#### Tuesday, December 20

- 10:00 – 11:00 Alexander Heß (Bonn) *Factorable groups, homology, and applications to generalized Thompson groups*
- 11:30 – 12:30 Jürg Kramer (Berlin) *On the Faltings height of the Jacobian of the modular curve  $X_1(N)$*

#### L u n c h b r e a k

- 14:15 – 15:15 Mathieu Carette (Louvain) *Spectral rigidity of automorphic orbits in the free group*
- 15:30 – 16:30 André Kappes (Frankfurt) *Lyapunov Exponents for Families of Curves over Ball Quotients*
- 17:00 – 18:00 Jürgen Wolfart (Frankfurt) *Uniform dessins on Shimura curves*
- from 19:00 **Weihnachtsfeier in room 5C-01.1 (Allianz building)**

## Wednesday, December 21

9:15 – 10:15 Christian Weiß (Frankfurt) *Twisted Teichmüller curves*

10:45 – 11:45 Ferrán Valdez (Morelia) *Homogeneous foliations  
and triangular billiards*

### L u n c h b r e a k

13:45 – 14:45 Carlos Matheus (Paris) *Neutral Oseledets bundles  
of the Kontsevich-Zorich cocycle*

15:15 – 16:15 Martin Möller (Frankfurt) *Period functions for Hecke triangle groups*

All talks will take place in **Seminarraum Z1** in the *Zähringerhaus* (building 01.85).

Address: Fritz-Erler-Straße 1-3, 76133 Karlsruhe.

The tea breaks will be in room 5C-01.1 in the *Allianzgebäude am Kronenplatz* (building 05.20). Address: Allianzgebäude, Kaiserstraße 89-93, 76133 Karlsruhe

### *Contact persons:*

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