

Vierzehnter Karlsruher Weihnachtsworkshop zur Geometrie und Zahlentheorie

December 14 to 16, 2016

Program

Wednesday, December 14

- 9:30 Reception Tea in the Mathematics building, room 1.058
- 10:00 – 11:00 Jonathan Zachhuber (Frankfurt) *Orbifold points on Prym-Teichmüller curves*
- 11:15 – 12:15 Luca Marchese (Paris) *Existence of a Hall ray in the Lagrange spectrum of Fuchsian groups with cusps and finite covolume*

L u n c h b r e a k

- 14:00 – 15:00 Matthew Bainbridge (Bonn) *A good compactification?*
- 15:15 – 16:15 Rebecca Schwerdt (Karlsruhe) *Ideals of finite index in polynomial rings*
- 16:45 – 17:45 Sebastian Hensel (Bonn) *Rigidity and flexibility for handlebody groups*

Thursday, December 15

- 08:45 – 09:45 Ashay Burungale (Paris) *t.b.a.*
- 10:00 – 11:00 Charles Fougerson (Paris) *Affine interval exchanges*
- 11:30 – 12:30 Stefan Virchow (Rostock) *The Probability of Generating the Symmetric Group*

L u n c h b r e a k

- 14:15 – 15:15 Elise Goujard (Paris) *Quasimodularity of generating functions for Siegel-Veech constants: counting Feynman-like graphs*
- 15:45 – 16:45 Samuel Grushevsky (New York) *Constructing differentials on degenerating families of Riemann surfaces*
- 17:00 – 18:00 Anja Randecker (Toronto) *A class of infinite translation surfaces where almost every direction is uniquely ergodic*
- from 19:00 **W e i h n a c h t s f e i e r** in the Mathematics building, room 1.067

Friday, December 16

- 09:00 – 10:00 Matteo Costantini (Frankfurt) *Lyapunov exponents and the $SL_2(\mathbb{C})$ -representation variety*
- 10:30 – 11:30 Felix Wellen (Karlsruhe) *Formalizing Cartan geometry in homotopy type theory*
- 11:45 – 12:45 Gunther Cornelissen (Utrecht) *Reconstructing curves from their Dirichlet L -series*

L u n c h b r e a k

- 14:15 – 15:15 Petra Schwer (Karlsruhe) *Combinatorics of Coxeter groups and affine Deligne-Lusztig varieties*

All talks will take place in **Seminarraum 1.067** in the Mathematics building (building 20.30).
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