

Sechzehnter Karlsruher Weihnachtsworkshop zur Geometrie und Zahlentheorie

December 17 to 19, 2018

Program

Monday, December 17

09:30 Reception Tea in the Mathematics building, room 1.058

10:00 – 11:00 Max Horn (Gießen) *Kac-Moody symmetric spaces*

11:15 – 12:15 Jan-Christoph Schlage-Puchta (Rostock) *Groups with many normal subgroups*

Lunch break

14:00 – 15:00 Verena Möhler (Karlsruhe) *On the full automorphism group of $SL(2, q)^b$ -unitals*

15:15 – 16:15 Christian Weiß (Mülheim a.d.R.) *Interval Exchange Transformations, Lyapunov Exponents and Discrepancy*

16:45 – 17:45 Christian Steinhart (Saarbrücken) *Explosions in Outer Space*

Tuesday, December 18

08:45 – 09:45 Sebastian Baader (Bern) *Geometric braid groups*

10:15 – 11:15 Felix Wellen (Pittsburgh) *Abstract facts on formally étale maps*

11:30 – 12:30 Scott Mullane (Frankfurt) *Positivity of the zero residue strata of differentials*

Lunch break

14:15 – 15:15	Sven Caspart (Karlsruhe)	<i>Translation manifolds and their Singularities</i>
15:45 – 16:45	Ferrán Valdez (Morelia)	<i>Around big Mapping Class Groups</i>
17:00 – 18:00	Samuel Lelièvre (Paris)	<i>Periodic billiard trajectories in the regular pentagon</i>
from 19:00	W e i h n a c h t s f e i e r in the Jubez-Café	

Wednesday, December 19

09:00 – 10:00	Mladen Dimitrov (Lille)	<i>Uniform boundedness for the rational torsion of abelian 3-folds of Picard type</i>
10:30 – 11:30	Steffen Kionke (Karlsruhe)	<i>Profinite invariants of arithmetic groups</i>
11:45 – 12:45	Hannah Markwig (Tübingen)	<i>Tropical curves and their moduli spaces</i>

L u n c h b r e a k

14:15 – 15:15	Martin Ulirsch (Frankfurt)	<i>Tropical Brill-Noether theory and Prym varieties</i> This talk is in room -1.025.
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All talks except for the last one will take place in **Seminarraum 1.067** in the Mathematics building (building 20.30).

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