

Final Program

VIRTUAL NIKOLAUS CONFERENCE 2020

(Lehrstuhl für Algebra und Zahlentheorie, RWTH Aachen)

All talks were online via zoom. Participants had to register to get the link.

All times are in central European standard time (CET = UTC+1).

Friday, December 11, 2020

- 2.01–2.23pm **Emily Norton** (Kaiserslautern): *New Decomposition Numbers of Finite Classical Groups*
- 2.30–2.49pm **Richard Parker** (Cambridge): *On Short Theorems with a Long Proof*
- 3.00–3.20pm **Farideh Shafiei** (Tehran): *Taketa Inequality for Solvable Groups with Few Irreducible Character Degrees*
- (coffee break — bring your own coffee and cookies)
- 4.35–4.55pm **Caroline Lassueur** (Kaiserslautern): *On the Modular Representation Theory of Finite Groups with Semi-Dihedral Sylow 2-Subgroups*
- 5.00–5.20pm **Gunter Malle** (Kaiserslautern): *On Willems' Conjecture on Brauer Character Degrees*
- 5.28–5.52pm **Farrokh Shirjian** (Tehran): *An Explicit Description of the Action of Automorphisms on Irreducible Characters of Quasi-Simple Groups of Type A*
- 7.00pm–?? Online variant of **Research Cambridge Style!** Participants had to organize drinks, Glühwein, Grillplatte or whatever they needed themselves. We had long chats via zoom, including some breakout rooms.

Saturday, December 12, 2020

- 2.00–2.18pm **Paula Hähndel** (Halle): *Finite Simple Groups that Act Transitively and with Fixity 4*
- 2.30–2.52pm **Rafał Lutowski** (Gdańsk): *Flat Manifolds with Holonomy Representation of Quaternionic Type*
- 3.00–3.21pm **Damian Sercombe** (Bochum): *Maximal Connected Subgroups of Maximal Rank in Reductive k -Groups*
- (coffee break — bring your own coffee and cookies)
- 4.30–4.47pm **Linus Hellebrandt** (Aachen): *Cartan Invariants of the Descent Algebra for Coxeter Groups of Type A_n*
- 5.00–5.21pm **Meinolf Geck** (Stuttgart): *An Elementary Characterisation of Special Nilpotent Orbits*
- 5.30–5.51pm **Thomas Breuer** (Aachen): *Verifying the Character Table of the Monster*
- 7.00pm–?? (Sorry, the Labyrinth was closed and cancelled this year.)

Frank Lübeck