

# GROUPS AND TOPOLOGICAL GROUPS

8-9 JULY 2022 BERLIN

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## After long break of pandemics, we start our GTG series again.

“Groups and Topological Groups” is a 2 days conference which has been organized every semester since 1972. The initiative for this conference has been set by R. Baer, H. Heineken, O.H. Kegel, P. Plaumann, and K. Strambach. We are happy to organize the next one of this conference series in Freie Universität Berlin, on 8-9 July 2022.

### [Previous GTG Conferences](#)

We would like to thank the Freie Universität Berlin and the Alexander von Humboldt Foundation, Philipp Schwartz Initiative for hospitality and support.

The workshop will take place in FU Berlin, Institut für Mathematik

Friday, July 8th: 12:00–18:00h, room 007/008 in Arnimallee 6

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Saturday, July 9th:

09:00–16:00h, in HS 001, Arnimallee 3, and

09:00–16:00h, in SR 031, Arnimallee 7.

### Program

#### Friday

13:00-13:30 **Wolfgang Herfort**, "*Neat LCA  $p$ -Groups*"

13:35-14:05 **Imke Toborg**, "*L-free groups*"

14:10-14:40 **Carmine Monetta**, "*Advances on a construction related to the non-abelian tensors square of a group*"

14:40-15:10 Coffee Break

15:10-15:40 **Jan-Christoph Schlage-Puchta**, "*Gaussian Elimination*"

15:45-16:15 **Patrick Serwene**, "*Exotic and block-exotic fusion systems*"

16:20-16:50 **Margherita Piccolo**, *"Representation growth of semisimple profinite groups"*

16:55-17:25 **Mattia Brescia**, *"Pronormality in locally finite simple groups"*

17:30-18:00 GTG Planning meeting

20:00 Dinner

### **Saturday**

9:00-9:30 **Costantino Delizia**, *"On anticommutative groups"*

9:35-10:05 **Martina Conte**, *"Definability of invariants of  $p$ -adic analytic pro- $p$  groups"*

10:10-10:40 **Olga Varghese**, *"Automatic continuity-prominent examples in geometric group theory"*

10:40-11:10 Coffee Break

11:10-11:40 **Luca Maria de Gravino**, *"The Möbius function of subgroup lattices"*

11:45-12:15 **Manuel Mancini**, *"Global integration of nilpotent Leibniz algebras"*

12:20-12:50 **Naqeeb ur Rehman**, *"Hurwitz Orbits with a Cellular Automaton"*

12:50-14:00 Lunch break

### **Lecture Room A**

14:00-14:30 **Gianmarco la Rosa**, *"Classification and Derivations of Nilpotent Leibniz algebras with one-dimensional commutator ideal"*

14:35-15:05 **Mario Galici**, *"Extensions of Steiner loops of projective type"*

15:10-15:40 **Edoardo Salati**, *"Generators and relations for partial groups"*

### **Lecture Room B**

14:00-14:30 **Alessandro Dioguardi Burgio**, *"Toroidal groups, generalized Jacobians and non-totally real number fields"*

14:35-15:05 **Julian Kaspczyk**, *"On  $p$ -supersolvability and  $p$ -nilpotence of finite groups"*

15:10-15:40 **Keivan Mallahi Karai**, *"Optimal linear sofic approximation of countable groups"*

15:45-16:15 Coffee Break

16:15-16:45 **Agota Figula** (Online), *Akivis algebras of differentiable loop extensions*

16:55-17:25 **Marialaura Noce**, *"Tree languages and groups acting on trees"*