

Training Seminar DK - Discrete Mathematics Schloss R othelstein bei Admont, 09-10.07.2018

LIST OF PARTICIPANTS

Oswin Aichholzer (TU Graz)	Christian Lindorfer (TU Graz)
Karin Baur (KFU Graz)	Jordan McMahon (KFU Graz)
Ren� Corbet (TU Graz)	JunSeok Oh (KFU Graz)
Nicola Del Giudice (TU Graz)	Irene Parada (TU Graz)
Mahadi Ddamulira (TU Graz)	Stefan Planitzer (TU Graz)
Christian Elsholtz (TU Graz)	Amnon Rosenmann (TU Graz)
Damir Ferizovic (TU Graz)	Robert Tichy (TU Graz)
Alfred Geroldinger (KFU Graz)	J�rg Thuswaldner (MU Leoben)
Peter Grabner (TU Graz)	Johannes Wallner (TU Graz)
Svenja H�ning (TU Graz)	Mario Weitzer (TU Graz)
Mihyun Kang (TU Graz)	Gundelinde Wiegel (TU Graz)
Michael Kerber (TU Graz)	Wolfgang Woess (TU Graz)
Bettina Klinz (TU Graz)	Shuqin Zhang (MU Leoben)
Stefan Lendl (TU Graz)	

PROGRAM

Monday, 09.07.2018

10:30 - 10:45 **Introduction**

10:45 - 11:15 **Presentation M. Kerber** (presentation + discussion)
"Persistent Homology and Topological Data Analysis"

11:15 - 12:15 **Presentation students** (2-3 minutes each presentation, then discussion)

P1 Gundelinde Wiegel (TU Graz)
P3 JunSeok Oh (KFU Graz)
P4 Damir Ferizovic (TU Graz)
P7 Stefan Lendl (TU Graz)
P8 Shu-Qin Zhang (MU Leoben)
P9 Mahadi Ddamulira (TU Graz)

12:15 - 13:30 **Lunch break**

13:30 - 14:15 **Presentation students**

P10 Svenja H ning (TU Graz)
P11 Irene Parada (TU Graz)
P12 Jordan McMahon (KFU Graz)
P13 Stefan Planitzer (TU Graz)
P15 Nicola Del Giudice (TU Graz)

14:15 - 15:15 **Faculty meeting / Students meeting** (in parallel)

15:15 - 15:30 **Coffee break**

15:30 - 18:30 **Walking trip** (along Enns river - cars required to reach the place)

18:30 **Dinner**

Tuesday, 10.07.2018

09:00 - 11:00 **Poster session** (students present their posters, discussion with reviewers)

P1 Gundelinde Wiegel: "The frog model on Galton-Watson trees"

P3 JunSeok Oh: "On product-one sequences over finite groups"

P4 Damir Ferizovic: "Bounds for the Green Energy on $SO(3)$ "

P7 Stefan Lendl: "Combinatorial optimization: efficient algorithms and hardness"

P8 Shuqin Zhang: "Space-filling curves"

P9 Mahadi Ddamulira: "On a problem of Pillai with k -generalized Fibonacci numbers and powers of 2"

P10 Svenja Hüning: "Nonlinear refinement rules and symmetry breaking in graphs"

P11 Irene Parada: "Discrete and computational geometry: order types, graphs, and applications"

P12 Jordan McMahan: "Idempotent ideals and higher homological algebra"

P13 Stefan Planitzer: "Unit fractions, Romanov type problems and sequences with property P"

P15 Nicola Del Giudice: "Vanishing of cohomology groups of random simplicial complexes"

10:00 - 10:15 **Coffee break** (in between the poster session)

11:00 - 12:00 **Final discussion**

12:00 - 13:30 **Lunch break**

13:30 **End of seminar**

In order to start on time, please try to arrive on Monday at the latest on 10:15 and complete the check-in arrangements before the seminar begins