

Leeds Computability Days 2022
University of Leeds School of Mathematics
Leeds, UK
30 May – 01 June 2022

Zoom information

- Meeting ID: 834 6305 0417
- Passcode: LT1@z8
- Link:
<https://universityofleeds.zoom.us/j/83463050417?pwd=STR6aVJpRUZLRzZpb1NiRXEwc1ZxUT09>

Schedule

ALL TIMES ARE UK TIMES!

The UK is on British Summer Time: UTC/GMT +1.

Monday, 30 May 2022

- Before 10:00am: Coffee available!
- 10:00am – 10:30am: Alexander Melnikov (Victoria University of Wellington)
Computable Polish groups
- 10:30am – 11:00am: Morning break!
- 11:00am – 12:00pm: Valentino Delle Rose (University of Siena)
Classical results and new developments on logical depth of infinite binary sequences
- 12:00pm – 2:00pm: Lunch!
- 2:00pm – 3:00pm: Manlio Valenti (University of Wisconsin–Madison)
New operators on Weihrauch degrees and their applications to separation results
- 3:00pm – 3:30pm: Afternoon break!
- 3:30pm – 4:00pm: Volodya Shavrukov
Applications of single sky to r.e. sets
- 4:10pm – 4:40pm: Steffen Lempp (University of Wisconsin–Madison)
Maximal towers and ultrafilter bases in computability

Tuesday, 31 May 2022

Before 10:00am: Coffee available!

10:00am – 10:30am: Wei Wang (Sun Yat-sen University)
 $P\Sigma_1$ and combinatorial principles

10:30am – 11:00am: Morning break!

11:00am – 12:00pm: Katarzyna Kowalik (University of Warsaw)
Some Ramsey-theoretic principles in reverse mathematics over a weak base theory

12:00pm – 2:00pm: Lunch!

2:00pm – 3:00pm: Tomasz Steifer (Pontificia Universidad Católica de Chile and Polish Academy of Sciences)
Effective ergodic theory

3:00pm – 3:30pm: Afternoon break!

3:30pm – 4:00pm: Vasco Brattka (Universität der Bundeswehr München)
On the complexity of computing Gödel numbers

4:10pm – 4:40pm: Mariya Soskova (University of Wisconsin–Madison)
One point extensions of antichains in the local structure of the enumeration degrees

Wednesday, 01 June 2022

- Before 10:00am: Coffee available!
- 10:00am – 10:30am: Kenshi Miyabe (Meiji University)
Generality of computable measures
- 10:30am – 11:00am: Morning break!
- 11:00am – 12:00pm: Maribel Fernández (King's College London)
Hierarchical higher-order port-graph rewriting as a modelling tool
- 12:00pm – 2:00pm: Lunch!
- 2:00pm – 2:30pm: Dariusz Kalociński (Polish Academy of Sciences)
Degree spectra and recovering the successor
- 2:40pm – 3:10pm: Marta Fiori Carones (Sobolev Institute of Mathematics)
When is unbounded search necessary?
- 3:10pm – 3:40pm: Afternoon break!
- 3:40pm – 4:10pm: Ludovic Patey (CNRS)
Partition genericity and pigeonhole basis theorems
- 4:20pm – 4:50pm: Rachael Alvir (Notre Dame)
Finitely α -generated structures