

Leeds Computability Days 2024
University of Leeds School of Mathematics
Leeds, UK
02 – 05 July 2024

Tuesday, 02 July 2024

Lecture Theatre D, Chemistry Building, University of Leeds

- Before 10:00am: Coffee available!
- 10:00am – 10:50am: Keita Yokoyama (Tohoku University)
*Proof interpretations based on low basis type theorems
and forcing*
- 10:50am – 11:10am: Morning break!
- 11:10am – 12:00pm: Katarzyna Kowalik (University of Würzburg)
Computable ultrapowers, forcing and proof size
- 12:00pm – 2:00pm: Lunch!
- 2:00pm – 2:50pm: Mathieu Hoyrup (University of Lorraine / LORIA)
Computable presentations of topological spaces
- 2:50pm – 3:20pm: Afternoon break!
- 3:20pm – 4:10pm: Sam Sanders (Ruhr University Bochum)
The Big, Bigger, and Biggest Five of reverse mathematics
- 4:10pm – 5:00pm: Rupert Hölzl (Bundeswehr University Munich)
Benign approximations, superspeedability, and randomness

Wednesday, 03 July 2024

MALL (Level 8), School of Mathematics, University of Leeds

Before 10:00am: Coffee available!

10:00am – 10:50am: Dino Rossegger (TU Wien)
Learning equivalence relations on Polish spaces

10:50am – 11:10am: Morning break!

11:10am – 12:00pm: David Fernández-Duque (University of Barcelona)
Provable well-orders and hyperarithmetical soundness

12:00pm – 2:00pm: Lunch!

2:00pm – 2:50pm: Johanna Franklin (Hofstra University)
Highness in the reticent sense

2:50pm – 3:20pm: Afternoon break!

3:20pm – 4:10pm: David Gonzalez (University of California, Berkeley)
Hybrid maximal filter spaces

4:30pm – 6:00pm Reception!

Thursday, 04 July 2024

MALL (Level 8), School of Mathematics, University of Leeds

- Before 10:00am: Coffee available!
- 10:00am – 10:50am: Patrick Uftring (University of Würzburg)
Weihrauch degrees without roots
- 10:50am – 11:10am: Morning break!
- 11:10am – 12:00pm: Emanuele Frittaion (University of Leeds)
Games for Peano arithmetic and elementary descent recursion
- 12:00pm – 2:00pm: Lunch!
- 2:00pm – 2:50pm: Shuwei Wang (University of Leeds)
 Σ_1^1 -computability and realisability of a global well-ordering
- 2:50pm – 3:20pm: Afternoon break!
- 3:20pm – 4:10pm: Alice Vidrine (University of Wisconsin–Madison)
Some results on enumeration Weihrauch reduction
- 4:10pm – 5:00pm: Ellen Hammatt (Victoria University of Wellington)
Structures computable without delay

Friday, 05 July 2024

MALL (Level 8), School of Mathematics, University of Leeds

- Before 10:00am: Coffee available!
- 10:00am – 10:25am: Heidi Benham (University of Connecticut) (*online talk*)
The Ginsburg–Sands theorem and computability theory
- 10:25am – 10:50am: Damir Dzhafarov (University of Connecticut) (*online talk*)
The strength of the Ginsburg–Sands theorem for T_1 spaces
- 10:50am – 11:10am: Morning break!
- 11:10am – 12:00pm: Dan Turetsky (Victoria University of Wellington)
The descriptive complexity of high_α
- 12:00pm – 2:00pm: Lunch!
- 2:00pm – 2:50pm: Arno Pauly (Swansea University)
Coming soon!
- 2:50pm – 3:20pm: Afternoon break!
- 3:20pm – 4:10pm: Yudai Suzuki (NIT, Okinawa College)
On some subtheories of $\Pi_1^1\text{-CA}_0$