

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)  
 $\Sigma_1^1$ -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  $\text{high}_\alpha$*
- 12:00pm – 2:00pm: Lunch!
- 2:00pm – 2:50pm: Arno Pauly (Swansea University)  
*More on the indivisibility of  $\mathbb{Q}$*
- 2:50pm – 3:20pm: Afternoon break!
- 3:20pm – 4:10pm: Yudai Suzuki (NIT, Okinawa College)  
*On some subtheories of  $\Pi_1^1\text{-CA}_0$*