ASSOCIATION FOR SYMBOLIC LOGIC
2023 NORTH AMERICAN ANNUAL MEETING

University of California Irvine
Irvine, California

March 25–29, 2023

Please note: This program is a draft for the upcoming ASL North American meeting.

Program Committee: Matt Foreman, Marjin Heule, Teresa Kouri Kissel, Tim McNicholl and Rahim Moosa (chair).
Local Organizing Committee: Matt Foreman, Isaac Goldbring (chair), Toby Meadows, Kai F. Wehmeier and Martin Zeman.

Coffee and registration will take place in he Interdisciplinary Science and Engineering Building (ISEB). The plenary and tutorial talks will be held in the ISEB Auditorium. The special session and contributed talks will be held in rooms 2020, 4020 and 5020 of ISEB as well as the ISEB Colloquium Room and the ISEB Auditorium. The welcoming reception will be held at 7:00pm on Saturday March 25.

SATURDAY, March 25

Morning

8:30 – 9:30	Registration and coffee.
9:30 – 10:30	Invited Lecture: **Jakob Nordström** (University of Copenhagen), *Leveraging computational complexity theory for provably correct combinatorial optimization.*
10:30 – 11:00	Coffee and registration.
11:00 – 12:00	Tutorial Lecture 1: **Natasha Dobrinen** (University of Notre Dame), *Ramsey theory on infinite structures, part 1.*

Afternoon

2:00 – 4:00	Special Session B1, C1, D1 and E1. See pages 3–7.
4:00 – 4:30	Coffee and registration.
4:30 – 5:30	Gödel Lecture: **Carl G. Jockusch, Jr.** (University of Illinois at Urbana-Champaign), *From algorithms which succeed on a large set of inputs to the Turing degrees as a metric space.*
7:00 – 9:00	Welcoming Reception. Somewhere

SUNDAY, March 26

Morning

9:00 – 9:30	Registration and coffee
9:30 – 10:30	Invited Lecture: **Maureen Eckert** (University of Massachusetts Dartmouth), *Suddenly, feminist logic?*
10:30 – 11:00	Registration and coffee.
11:00 – 12:00	Tutorial Lecture 2: **Natasha Dobrinen** (University of Notre Dame), *Ramsey theory on infinite structures, part 2.*

Afternoon

2:00 – 3:00	Special Session A1, C2, D2 and E2. See pages 3–7.
3:00 – 4:00	Special Session A2, B2, C3, D3 and F1. See pages 3–7.
4:00 – 4:30	Coffee.
4:30 – 5:30	Invited Lecture: **Nick Ramsey** (University of Notre Dame), *Model-theoretic tree properties: developments and prospects.*

MONDAY, March 27

Morning

8:30 – 9:00	Coffee.
9:00 – 10:00	Tutorial Lecture 1: **Marcin Sabok** (McGill University), *Complete orbit equivalence relations, part 1.*
10:00 – 10:30	Coffee.
10:30 – 11:30	Special Session A3, C4, E3 and F2. See pages 3–7.
11:30 – 12:30	Special Session A4, B3, C5 and F3. See pages 3–7.

TUESDAY, March 28

Morning

9:00 – 9:30	Coffee.
9:30 – 10:30	Invited Lecture: **Dino Rosseger** (University of California Berkeley), *Pairs of structures: variations and applications.*
10:30 – 11:00	Coffee.
11:00 – 12:00	Tutorial Lecture 2: **Marcin Sabok** (McGill University), *Complete orbit equivalence relations, part 2.*

Afternoon

2:00 – 3:00	Invited Lecture: **Jindrich Zapletal** (University of Florida), *Algebra and axiom of choice.*
3:00 – 4:00	Special Session A5, B4, E4 and F4. See pages 3–7.
4:00 – 4:30	Coffee.
4:30 – 6:05	Contributed Talks. See pages 7–7.

WEDNESDAY, March 29

Morning

8:30 – 9:00	Coffee.
9:00 – 10:00	Invited Lecture: **Tomás Ibarlucía** (Université Paris Cité, CNRS), *Extremal models in affine logic.*
10:00 – 10:30	Coffee.
10:30 – 11:30	Special Session B5, E5 and F5. See pages 3–7.
11:30 – 12:30	Invited Lecture: **Ralf Schindler** (Universität Münster), *Martin's Maximum, Woodin's (*), and beyond.*

SPECIAL SESSIONS

A. Computability Theory

(Organized by Johanna Franklin and Matthew Harrison-Trainor)

Session A1: Sunday, March 26 in ISEB 2020

2:00 – 2:25	**Karen Lange** (Wellesley College), *Determining lengths of well-ordered subsets of ordered abelian groups.*
2:30 – 2:55	**Joseph S. Miller** (University of Wisconsin–Madison), *The Hausdorff dimension of continuous images.*

Session A2: Sunday, March 26 in ISEB 2020

3:00 – 3:25	**Elvira Mayordomo** (Universidad de Zaragoza), *Extensions of the point to set principle.*
3:30 – 3:55	**Rachael Alvir** (University of Waterloo), *Scott complexity and groups.*

Session A3: Monday, March 27 in ISEB 2020

10:00 – 10:25	**Liling Ko** (Ohio State University), *A computably small set that is not intrinsically small.*

Session A4: Monday, March 27 in ISEB 2020

11:30 – 11:55 **Francesca Zaffora Blando** (Carnegie Mellon University), *TBA.*
12:00 – 12:25 **Oscar Levin** (University of Northern Colorado), *Asymptotic density and the computability of graphs.*

Session A5: Tuesday, March 28 in ISEB 2020

3:00 – 3:25 **Reed Solomon** (University of Connecticut), *Vertex pursuit games and well ordering graphs.*
3:30 – 3:55 **Patrick Lutz** (University of California Los Angeles), *Encoding information into all infinite subsets of a dense set.*

B. Descriptive Dynamics

(Organized by Su Gao and Steve Jackson)

Session B1: Saturday, March 25 in ISEB 4020

2:00 – 2:50 **Jenna Zomback** (Williams College), *Weak mixing for semigroup actions and applications to pointwise ergodic theorems.*
3:00 – 3:50 **Filippo Calderoni** (Rutgers University), *A descriptive view of the space of left-orderings.*

Session B2: Sunday, March 26 in ISEB Auditorium

3:00 – 3:25 **Zoltán Vidnyánszky** (California Institute of Technology), *Homomorphism problems in the infinite context.*
3:30 – 3:55 **Assaf Shani** (Harvard University), *Actions of Polish wreath product groups.*

Session B3: Monday, March 27 in ISEB Auditorium

11:30 – 12:20 **Shaun Allison** (University of Toronto), *Polish groups which don't involve* S_∞.

Session B4: Tuesday, March 28 in ISEB 4020

3:00 – 3:50 **Dominik Kwietniak** (Jagiellonian University), *Borel complexity of generic points and related sets.*

Session B5: Wednesday, March 29 in ISEB 4020

10:30 – 10:55 **Clinton Conley** (Carnegie Mellon University), *TBA.*
11:00 – 11:25 **Aristotelis Panagiotopoulos** (Carnegie Mellon University), *General relativity does not admit enough observables.*

C. Model Theory

(Organized by Özlem Beyarslan and Artem Chernikov)

Session C1: Saturday, March 25 in ISEB Colloquium Room

2:00 – 2:50 **Mariana Vicaria** (University of California Los Angeles), *Towards an imaginary Ax-Kochen/Ershov principle.*

3:00 – 3:50 **Nigel Pynn-Coates** (Ohio State University), *Monotone T-convex T-differential fields.*

Session C2: Sunday, March 26 in ISEB Colloquium Room

2:00 – 2:50 **Kyle Gannon** (University of California Los Angeles), *Some results concerning measures on ultraproducts.*

Session C3: Sunday, March 26 in ISEB Colloquium Room

3:00 – 3:50 **James Hanson** (University of Maryland), *Bounded ultraimaginary independence.*

Session C4: Monday, March 27 in ISEB Colloquium Room

10:30 – 11:20 **Alexi Block Gorman** (McMaster University), *Expansions by k-regular sets of reals: toward a characterization of V_k definability.*

Session C5: Monday, March 27 in ISEB Colloquium Room

11:30 – 12:20 **Alexis Chevalier** (Institute for Advanced Study), *An algebraic hypergraph regularity lemma.*

D. Proof Complexity Beyond Propositional Logic

(Organized by Olaf Beyersdorff and Susanna de Rezende)

Session D1: Saturday, March 25 in ISEB 5020

2:00 – 2:50 **Robert Robere** (McGill University), *On propositional proofs and total search problems.*

3:00 – 3:50 **Meena Mahajan** (Institute of Mathematical Sciences, Chennai), *Quantified Boolean formulas: solving and proof complexity.*

Session D2: Sunday, March 26 in ISEB 5020

2:00 – 2:50 **Neil Thapen** (Czech Academy of Sciences), *First-order logic and algebraic proof systems.*

Session D3: Sunday, March 26 in ISEB 5020

3:00 – 3:50 **Noah Fleming** (Memorial University), *The proof complexity of integer programming.*

E. Set Theory

(Organized by Gabe Goldberg and Martin Zeman)

Session E1: Saturday, March 25 in ISEB Auditorium

2:00 – 2:25 **Dominik T. Adolf** (University of North Texas), *Rudin-Keisler capturing and mutual stationarity at successors of singular cardinals.*
2:30 – 2:55 **Thomas Gilton** (University of Pittsburgh), *PCF theory and the Tukey spectrum.*
3:00 – 3:25 **Assaf Shani** (Harvard University), *Models of ZF set theory with deep failure of choice.*
3:30 – 3:55 **Benjamin Siskind** (Carnegie Mellon University), *Connections between measures in $L(\mathbb{R})$ and Martin's Conjecture.*

Session E2: Sunday, March 26 in ISEB Auditorium

2:00 – 2:50 **Nam Trang** (University of North Texas), *Forcing over models of determinacy.*

Session E3: Monday, March 27 in ISEB Auditorium

10:30 – 10:55 **Elliot Glazer** (Harvard University), *Projective paradoxes of* $(*)$.
11:00 – 11:25 **Kaethe Minden** (Bard College at Simon's Rock), *Split principles.*

Session E4: Tuesday, March 28 in ISEB Auditorium

3:00 – 3:50 **Dima Sinapova** (Rutgers University), *Mutual stationarity and the failure of SCH.*

Session E5: Wednesday, March 29 in ISEB Auditoriium

10:30 – 10:55 **Garrett Ervin** (California Institute of Technology), *Infinitary submodular functions and maximum flows.*
11:00 – 11:25 **William Chan** (University of North Texas), *A survey of combinatorics and size of sets under determinacy.*

F. Women in the History of Logic

(Organized by Sophia Connell and Frederique Janssen-Lauret)

Session F1: Sunday, March 26 in ISEB 4020

3:00 – 3:50 **Teresa Kouri Kissel** (Old Dominion University), *Susan Stebbing and the commonsense nature of modus ponens.*

Session F2: Monday, March 27 in ISEB 4020

10:30 – 11:20 **Jasmin Özel** (University of Siegen), *Christine Ladd-Franklin's antilogism revisited.*

Session F3: Monday, March 27 in ISEB 4020

11:30 – 12:20 **Gisele Dalva Secco** (Federal University of Santa Maria), *Loparić avec les lacaniens: notes on a translation.*

Session F4: Tuesday, March 28 in ISEB Colloquium Room

3:00 – 3:50 **Sara L. Uckelman** (Durham University), *What problem did Ladd-Franklin (think she) solve(d)?*

Session F5: Wednesday, March 29 in ISEB Colloquium Room

10:30 – 11:20 **Landon Elkind** (Western Kentucky University), *TBA.*

CONTRIBUTED TALKS

TUESDAY, March 28

Session A, 4:30-6:05, ISEB Room 2020.

4:30 – 4:50 **Samson Leung** (Carnegie Mellon University), *First stability cardinals of AECs.*

4:55 – 5:15 **Wentao Yang** (Carnegie Mellon University), *An NIP-like notion for abstract elementary classes.*

5:20 – 5:40 **David Gonzalez** (University of California, Berkeley), *The ω-Vaught's conjecture.*

5:45 – 6:05 **Henry Towsner** (University of Pennsylvania), *What is tame hypergraph regularity?*

Session B, 4:30-6:05, ISEB Room 4020.

4:30 – 4:50 **Russell Miller** (Queens College – CUNY), *Computability and the absolute Galois group of $\mathbb{Q}$.*

4:55 – 5:15 **Michał Tomasz Godziszewski** (University of Warsaw), *Tennenbaum's Theorem for quotient presentations of nonstandard models of arithmetic.*

5:20 – 5:40 **Owain Griffin** (Ohio State University), *Skepticism, Skolemism, and the standard model.*

5:45 – 6:05 **S. Kaan Tabakci** (University of California Davis), *Tonk in metainferences.*

Session C, 4:30-5:40, ISEB Room 5020.

4:30 – 4:50 **William Adkisson** (University of Illinois at Chicago), *The strong tree property and ITP.*

4:55 – 5:15 **Pedro E. Marun** (Carnegie Mellon University), *Subtrees with small branching number.*

5:20 – 5:40 **Kameryn Williams** (Sam Houston State University), *Non-tightness in class theory.*