

ASSOCIATION FOR SYMBOLIC LOGIC
2014 NORTH AMERICAN ANNUAL MEETING

UNIVERSITY OF COLORADO
BOULDER, COLORADO, USA

PRELIMINARY SCHEDULE

All events will take place on the University of Colorado Boulder campus.

Talks will take place in Fleming Building, plenary lectures in room 155 and special sessions and contributed talks in rooms 104, 154, 156, and 157.

Registration, coffee breaks and the book exhibit will take place in Kittredge Central Hall, registration in the lobby, book exhibits in multipurpose room B, and coffee breaks in multipurpose room C.

A welcome reception will be held in the Koenig Alumni Center on Monday May 19 at 6:00.

Special session introductions (2:00 Monday and 11:20 Tuesday) should be accessible to a general audience, and in particular to graduate students. For non-specialists, they may serve as a prerequisite for other talks in the special session.

Details of special session and contributed talks follow the schedule grid.

Please see <http://math.colorado.edu/as12014/> for additional information.

Program Committee: M. Groszek (Chair), A. Kanamori, K. Kearnes, J. Marikova, S. Thomas, H. Towsner.

Local Organizing Committee: N. Dobrinen, G. Forbes, N. Galatos, K. Kearnes (Chair), D. Monk, A. Szendrei.

MONDAY				
8:00	coffee and registration			
10:10	opening remarks			
10:20	Sean Walsh (UC Irvine) The constructible universe, the naive conception, and intensional logic			
11:20	M. Chris Laskowski (Maryland) When is \aleph_1 categorically absolute?			
12:20	lunch			
	Room 154	Room 156	Room 157	Room 104
2:00	PH introduction*: Pacuit and Parikh	RT introduction*: Knight	UA introduction*: Valeriote	
3:00	PH: van Benthem	RT: Cai	UA: Larose	CT: Cody
3:25				CT: Brown
3:45	coffee break			
4:15	PH: Bilgrami	RT: Igusa	UA: Pinsker	CT: Brodsky
4:40				CT: Leach-Krouse
5:10	CT: Parikh	CT: Chih	CT: Linman	
6:00	reception, Koenig Alumni Center			

TUESDAY				
8:30	coffee			
9:00	Libor Barto (Charles Univ.) Universal algebra and the constraint satisfaction problem			
9:50	coffee break			
10:20	Andrew Marks (Caltech) Descriptive graph combinatorics of locally finite graphs			
11:20	LA introduction*: Ong	ST introduction*: Larson	MT introduction*: Starchenko	
12:10	lunch			
	Room 154	Room 156	Room 157	Room 104
2:00	LA: Niwiński	ST: Hamkins	MT: Dolich	PH: Skyrms
2:45	LA: Kobayashi	ST: Dobrinen	MT: Flenner	PH: Verbrugge
3:25	coffee break			
3:55	RT: Melnikov	UA: Bulatov	MT: Krupinski	PH: Brams
4:40	RT: Quinn	UA: Živný	MT: Leenknegt	PH: Ramanujam
5:30	CT: Levin	CT: Moore	CT: Rast	CT: Shear
5:55	CT: Harrison-Trainor	CT: Horowitz	CT: Kruckman	CT: Gordon

WEDNESDAY				
8:30	coffee			
9:00	Valeria de Paiva (Nuance Communications) Edwardian proofs for futuristic programs and personal assistants. . .			
9:50	coffee break			
10:20	Jeffry Hirst (Appalachian State) Graphs, computability, and reverse mathematics			
11:20	Alex Wilkie (Manchester) Retiring Presidential Address			
12:10	lunch			
	Room 154	Room 156	Room 157	Room 104
2:00	UA: Maróti	LA: Parys	ST: Mijares	RT: Shafer
2:45	UA: Kazda	LA: Salvati	ST: Miller	RT: Soskova
3:25	coffee break			
3:55	MT: Ealy	LA: Murawski	ST: Sinapova	CT: Mileti
4:20				CT: Riggs
4:45	MT: Walsberg		ST: Todorčević	CT: Freer
5:10				CT: Basu
5:40	CT: Hill	CT: Van der Meeren	CT: Piper	CT: Protopopescu
6:05	CT: Ziegler	CT: Schweber	CT: Hachtman	CT: Ellerman

THURSDAY	
8:30	coffee
9:00	Alexei Kolesnikov (Towson) Amalgamation properties
9:50	coffee break
10:20	Barbara Csima (Waterloo) Isomorphisms of computable structures
11:20	Michael Hrusak (UNAM Mexico) Forcing, filters, and ideals
12:10	conference ends

Special Session LA: Logic and Algorithms for Higher-Order Computations
organized by Naoki Kobayashi (Tokyo) and Luke Ong (Oxford)

Introduction: Higher-order model checking. Luke Ong (Oxford). Tue. 11:20.
Trees with decidable theories. Damian Niwiński (Warsaw). Tue. 2:00.
Intersection types for higher-order model checking. Naoki Kobayashi (Tokyo). Tue. 2:45.
Expressive power of collapsible pushdown automata. Pawel Parys (Warsaw). Wed. 2:00.
Models for model checking higher-order programs. Sylvain Salvati (Inria). Wed. 2:45.
Algorithmic nominal game semantics. Andrzej Murawski (Warwick). Wed. 4:20.

Special Session MT: Model Theory
organized by Philipp Hieronymi (Illinois) and Jana Marikova (Western Illinois)

Introduction: On applications of o-minimality to number theory. Sergei Starchenko (Notre Dame). Tu 11:20.
Ordered structures where every infinite definable set has nonempty interior. Alfred Dolich (Kingsborough Community College CUNY). Tu 2:00.
VC-minimal theories and valued fields. Joseph Flenner (Univ. of St. Francis). Tu 2:45.
Generalized Bohr compactification and model-theoretic connected components. Krzysztof Krupinski (Wroclaw). Tu 3:55.
Differentiation in p-minimal structures and p-adic local monotonicity. Eva Leenknegt (Purdue). Tu 4:40.
TBA, Clifton Ealy (Western Illinois). W 3:55.
Metric geometry in the o-minimal setting. Erik Walsberg (UCLA). W 4:45.

Special Session PH: Philosophical Aspects of Games and Social Algorithms
organized by Eric Pacuit (Maryland) and Rohit Parikh (CUNY)

Introduction: Philosophical aspects of games and social algorithms. Eric Pacuit (Maryland) and Rohit Parikh (CUNY). M 2:00.
Logic and games, a theory of play. Johan van Benthem (Amsterdam and Stanford). M 3:00.
Reframing the mentality of politics. Akeel Bilgrami (Columbia). M 4:15.
Dynamics of signaling games. Brian Skyrms (UC Irvine). Tu 2:00.
Thinking about thinking: from food caching to games. Rineke Verbrugge (Groningen). Tu 2:45.
Fair division of divisible and indivisible items: possibilities and impossibilities. Steven Brams (NYU). Tu 3:55.
Logical dynamics of rational choice in large games. R. Ramanujam (Chennai). Tu 4:40.

Special Session RT: Recursion Theory
organized by Oscar Levin (Northern Colorado) and Reed Solomon (Connecticut)

- Introduction: Using computability to measure complexity of structures and classes of structures. Julia Knight (Notre Dame). M 2:00.
- Limit computability and ultrafilters on omega. Mingzhong Cai (Wisconsin). M 3:00.
- Using flawed oracles to produce flawed computations. Greg Igusa (Notre Dame). M 4:15.
- Iterated embeddings of computable p-groups. Alexander Melnikov (UC Berkeley). Tu 3:55.
- The complexity of integer matrix groups. Sara Quinn (Dominican Univ.). Tu 4:40.
- Exploring randomness, diagonally non-recursiveness, and Ramsey-type combinatorial principles in reverse mathematics. Paul Shafer (Ghent). W 2:00.
- The definability of the total enumeration degrees and its consequences. Mariya Soskova (Sofia Univ.). W 2:45.

Special Session ST: Set Theory in Honor of Rich Laver
organized by Jean Larson (Florida) and William Mitchell (Florida)

- Introduction: Honoring Rich Laver and his mathematics. Jean Larson (Florida). Tu 11:20.
- Superstrong and other large cardinals are never Laver indestructible. Joel Hamkins (CUNY Staten Island). Tu 2:00.
- Some recent progress in Ramsey theory. Natasha Dobrinen (Univ. of Denver). Tu 2:45.
- Local Ellentuck theory and topological Ramsey spaces. Jose Mijares (Univ. of Denver). W 2:00.
- Critical sequences of rank-to-rank embeddings and a tower of finite left distributive algebras. Sheila Miller (CUNY City Tech). W 2:45.
- Square properties at successors of singular cardinals. Dima Sinapova (UIC). W 3:55.
- Recent advances in the Ramsey theory of trees. Stevo Todorčević (Toronto and CNRS Paris). W 4:45.

Special Session UA: Universal Algebra and Constraint Satisfaction
organized by Agnes Szendrei (Colorado) and Ross Willard (Waterloo)

- Introduction: An algebraic approach to constraint satisfaction: an introduction. Matt Valeriote (McMaster). M 2:00.
- Space complexity of binary conservative CSPs: a dichotomy. Benoit Larose (Concordia). M 3:00.
- Reconstructing structures from their abstract clones. Michael Pinsker (Univ. Diderot). M 4:15.
- Logic and counting constraint satisfaction problem. Andrei Bulatov (Simon Fraser). Tu 3:55.
- Weighted clones and valued CSPs. Stanislav Živný (Oxford). Tu 4:40.
- The structure of polynomial operations associated with smooth digraphs. Miklós Maróti (Szeged). W 2:00.
- Algorithms that decide absorption. Alexandr Kazda (Vanderbilt). W 2:45.

CT: Contributed Talks
Alphabetically by Speaker

- Sankha S. Basu* and Stephen G. Simpson. Mass problems and intuitionistic higher-order logic. W 5:10.
- Ari Meir Brodsky. A theory of stationary trees and the balanced Baumgartner-Hajnal-Todorćević theorem for trees. M 4:15.
- Jennifer Brown* and Natasha Dobrinen. The spectra of Tukey types of ultrafilters on several classes of Boolean algebras. M 3:25.
- Ellen Chih. Nonsplittings of speedable sets. M 5:10.
- Brent Cody* and Sean Cox. Precipitous ideal extenders and forcing. M 3:00.
- David Ellerman. Partition logic and applications. W 6:05.
- Cameron E. Freer. Computable invariant measures and algorithmically random structures. W 4:45.
- Evgeny Gordon. Nonstandard analysis as a tool for investigation of the relation between discrete and continuous mathematics. Tu 5:55.
- Sherwood Hachtman. Calibrating Borel Determinacy. W 6:05.
- Matthew Harrison-Trainer. Degree spectra of relations on a cone. Tu 5:55.
- Cameron Dionnay Hill. Model-theoretic approaches to Ramsey theory. W 5:40.
- Jonah Horowitz. Some hardness results for Mal'cev conditions. Tu 5:55.
- Alex Kruckman. Sampling measures and limits of finite structures. Tu 5:55.
- Graham Leach-Krouse. Structural abstraction principles. M 4:40.
- Matthew Jura, Oscar Levin*, and Tyler Markkanen. Finding small domatic partitions in graphs with large domatic number. Tu 5:30.
- Julie Linman* and Michael Pinsker. Reducts of the random permutation. M 5:10.
- Joe Mileti. Irreducibles and primes in computable rings. W 3:55.
- Matthew Moore. Idempotent congruence modular algebras that admit a natural duality have cube terms. Tu 5:30.
- Rohit Parikh. Hoare logic and Gricean implicature. M 5:10.
- Everett Piper* and Sheila Miller. Large cardinals killed by small forcings. W 5:40.
- Sergei Artemov and Tudor Protopopescu*. Intuitionistic epistemic logic. W 4:45.
- Richard Rast. On Borel-completeness for o-minimal theories. Tu 5:30.
- Kyle Riggs. The computability of completely decomposable groups. W 4:20.
- Noah Schweber. Determinacy and higher reverse mathematics. W 6:05.
- Ted Shear* and Konstantin Genin. Contraction and the loss of true belief. Tu 5:30.
- Jeroen Van der Meeren. Sequences with the gap-embeddability relation. W 5:30.
- Caleb Ziegler. Polynomial-time equivalence relation reducibility. W 6:05.
- John Corcoran. Absence of argument-deduction-proof distinctions in Church 1956. By title.
- John Corcoran and Sriram Nambiar. Prefix proposal: occurrences of numerals in numerals. By title.
- John Corcoran and José Miguel Saguillo. Deductive and inductive arguments. By title.
- Cyrus F. Nourani. Competitive model games. By title.