MONDAY 3 AUGUST

8.30AM–10.30AM
Registration
Venue - Porthania Lobby
You will find the conference registration and information desk on the ground floor of Porthania (Yliopistonkatu 3).
The registration desk accepts ONLY CASH PAYMENTS. If you need to pay your registration fee or some other conference services by cash, please bring with you the exact sum.

10.30AM–12.00PM
Special Session on Proof Theory
Venue - PII
Transfinite reflection principles and subsystems of second-order arithmetic
David Fernández Duque, Instituto Tecnológico Autónomo de México

Condensation does not imply Square
Peter Holy, University of Bonn, GERMANY

12.05PM–1.05PM
Tutorial 1.1
Venue – PI
On the Set Theory of Generalized Logics
Menachem Magidor
Einstein Institute of Mathematics, Hebrew University of Jerusalem, ISRAEL

1.05PM–2.30PM
Lunch
Venue - Main Building Unicafe
Lunch at the Main Building Unicafe (Fabianinkatu 33, co-located with CLMPS 2015) for participants who have purchased the additional lunch package.
If you have not purchased the lunch package online while registering, please ask for lunch packages at the registration desk.

2.30PM–4.30PM
Opening Ceremony
Venue - Great Hall, Main Building
The opening ceremony is also open for aves!
The program includes welcome addresses by CLMPS 2015 and LC 2015 organizers and organizing institutions. The Classic University Choir, YL double quartet, will perform best pieces of their repertoire.
Detailed program:
14.30-14.35: Video on Finland / University of Helsinki
14.35-14.45 Anna Mauranen, Vice Rector, University of Helsinki
14.45-15.00 Music by YL Double Quartet
15.00-15.10 Elliott Sober, President, Division of Logic, Methodology and Philosophy of Science (DLMPS)
15.10-15.20 Alasdair Urquhart, President, Association for Symbolic Logic (ASL) and Patricia Blanchette, Association for Symbolic Logic (ASL), Membership committee
15.20-15.30 Gordon McBean, President, International Council for Science
15.30-15.50 Music by YL Double Quartet
15.50-16.00 Ilkka Niiniluoto, Chair of the Local Organizing Committee, CLMPS 2015
16.00-16.10 Hannes Leitgeb, Chair of the Programme Committee, CLMPS 2015
16.10-16.20 Jouko Väänänen, Chair of the Local Organizing Committee, LC 2015
16.20-16.30 Dag Westerståhl, Chair of the Programme Committee, LC 2015
4.30PM–5.00PM
Coffee

Venue - Great Hall Foyers, Main Building,

5.00PM–6.30PM
Plenary Lecture: Johan van Benthem

Venue - Great Hall, Main Building

Logic in Play
Johan van Benthem, Amsterdam, Stanford and Tsinghua University,

6.30PM–8.00PM
University Reception

Venue - University Main Building (Fabianinkatu33), Press Hall Foyer.

The Rector of the University of Helsinki welcomes the colloquium participants by treating them to a wine and salad buffet after the first colloquium-opening day.

The number of participants at the University Reception is limited. The earlier you register for LC2015, the more likely you can participate in the University Reception. The reception is also open for awes!

TUESDAY 4 AUGUST

9.00AM–10.00AM
Plenary Lecture: Artem Chernikov

Venue - PI

Applications of model theory in extremal graph combinatorics
Artem Chernikov, Institut de Mathématiques de Jussieu - Paris Rive Gauche, FRANCE

10.00AM–10.30AM
Coffee

Venue - Porthania Lobby

10.30AM–11.30AM
Tutorial 1.2

Venue – PI

On the Set Theory of Generalized Logics
Menachem Magidor
Einstein Institute of Mathematics, Hebrew University of Jerusalem, ISRAEL

11.30AM–12.35 PM
Break

12.35PM–2.00PM
Lunch

Venue - Main Building Unicafe

Lunch at the Main Building Unicafe (Fabianinkatu 33, co-located with CLMPS 2015) for participants who have purchased the additional lunch package.

2.00PM–3.30PM
Special Session on Set Theory

Venue - PII

Dynamics of the homeomorphism group of the Lelek fan
Aleksandra Kwiatkowska
University of Bonn, GERMANY
Dana Bartosova
University of Sao Paulo, BRAZIL

Forcing and generic absoluteness without choice
Philipp Schlicht
Universität Münster, GERMANY

2.00PM–3.30PM
Special Session on Proof Theory

Venue - PIII

Elena Nogina
BMCC, City University of New York, UNITED STATES

Proof-theoretic Approach to Craig Interpolation
Roman Kuznets
TU Wien, AUSTRIA
2.00PM–3.30PM

Special Session on Logic and Quantum Foundations

**Venue - PIV**

3.30PM–4.00PM

Coffee

**Venue - Porthania Lobby**

4.00PM–6.00PM

Contributed Talks 1

**Venue - PI**

Applications of motivic integration to the fundamental lemma
Jorge Cely
University of Pittsburgh, UNITED STATES

Correlations between HS-derivations and the SCF_{p,e}
Daniel Hoffmann
Wroclaw University, POLAND

On orthogonality of a family of convex components of a type in weakly circularly minimal structures
Aizhan Altayeva
Institute of Mathematics and Mathematical Modeling, KAZAKHSTAN

‘Generic’ functions over divisible ordered abelian groups
Alfred Dolich
Kingsborough Community College and the CUNY

Grad Center, UNITED STATES

Robinson’s property and amalgamations of higher arities
David Nyiri
Budapest University of Technology and Economics, HUNGARY

On algebras of distributions for binary formulas of countably categorical weakly o-minimal theories
Beibut Kulpeşov
International Information Technology University, Almaty, KAZAKHSTAN

Novosibirsk State Technical University, Novosibirsk, RUSSIA

Sergey Sudoplatov
Sobolev Institute of Mathematics, Novosibirsk, RUSSIA

RUSSIAN FEDERATION

Novosibirsk State University, Novosibirsk, RUSSIA

Modeling, Almaty, KAZAKHSTAN

Dmitry Yemelyanov
Novosibirsk State University, Novosibirsk, RUSSIA

Institute of Mathematics and Mathematical Modeling, Almaty, KAZAKHSTAN

A Uniform Idea behind Gentzen’s Three Consistency Proofs
Ryota Akiyoshi
Waseda Institute for Advanced Study, JAPAN

Yuta Takahashi
Keio University, JAPAN

Some partial conservativity properties for Intuitionistc Set Theory with the principle P
Alexey Vladimirov
Moscow State University, Dept. of Mathematics and Mechanics

A generalisation of closed unbounded sets
Hazel Brickhill
University of Bristol, UNITED KINGDOM

Confluence of cut elimination with respect to Herbrand disjunctions
Bahareh Afshari
TU Wien, AUSTRIA

Stefan Hetzl
Vienna University of Technology, AUSTRIA

Graham Leigh
Vienna University of Technology, AUSTRIA

Gentzen’s ordinal collapsing function
Annika Siders
University of Helsinki, FINLAND

Constructive completeness and non-discrete languages
Henrik Forssell
Stockholm University, SWEDEN

4.00PM–6.00PM

Contributed Talks 2

**Venue - PII**

Confluence of cut elimination with respect to Herbrand disjunctions
Bahareh Afshari
TU Wien, AUSTRIA

Stefan Hetzl
Vienna University of Technology, AUSTRIA

Graham Leigh
Vienna University of Technology, AUSTRIA

Gentzen’s ordinal collapsing function
Annika Siders
University of Helsinki, FINLAND

Constructive completeness and non-discrete languages
Henrik Forssell
Stockholm University, SWEDEN

4.00PM–6.00PM

Contributed Talks 3

**Venue - PIII**

Large cardinals and the ordinal topological completeness of GLP
Joan Bagaria,
ICREA and Universitat de Barcelona, SPAIN

Forcing, regularity properties and the axiom of choice
Haim Horowitz
Hebrew university of Jerusalem, ISRAEL

Saharon Shelah
Hebrew university of Jerusalem, ISRAEL

A generalisation of closed unbounded sets
Hazel Brickhill
University of Bristol, UNITED KINGDOM

Initial segments of models of set theory defined by non-trivial automorphisms
Zachiri McKenzie
University of Gothenburg, SWEDEN

On thin-tall and thin-thick Boolean spaces
Juan Carlos Martinez
University of Barcelona, SPAIN

Some applications of finite-support products of Jensen’s minimal EvarDelta^{*}_1 3S forcing
Vladimir Kanovei
IITP, RUSSIAN FEDERATION

4.00PM–6.00PM

Contributed Talks 4

**Venue - PIV**

A formalization of Gödelian causal theory
Srecko Kovač
Institute of Philosophy, A public research institute, Zagreb, CROATIA

Gödel’s philosophy of mathematics and structural realism about empirical sciences
Julia Jankowska
University of Warsaw, POLAND

4.00PM–6.00PM

Contributed Talks 5

**Venue - P617**

Yablo’s Paradox(es) as Theorem(s) in Temporal Logic
Ahmad Karimi
Behbahan Khatam Alanbia University of Technology, IRAN

Lockean danger zones and lossy inferences
Ted Shear
University of California, Davis, UNITED STATE

Towards a Formal Occurrence Logic based on Predicate Logic
Farshad Badie
Aalborg University, DENMARK

Epistemic logics for sceptical agents
Marta Bilkova
Institute of Computer Science, Academy of Sciences of the Czech Republic, CZECH REPUBLIC

Categories of first order quantifiers
Urszula Wybraniec-Skardowska
Group of Logic, Language and Information, POLAND

Quantum states by first order variables: some consequences
Giulia Battistotti
Dept. of Mathematics, University of Padova, ITALY

A generalisation of closed unbounded sets
Hazel Brickhill
University of Bristol, UNITED KINGDOM

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Categories of first order quantifiers
Urszula Wybraniec-Skardowska
Group of Logic, Language and Information, POLAND

Quantum states by first order variables: some consequences
Giulia Battistotti
Dept. of Mathematics, University of Padova, ITALY
Contributed Talks 6

Venue - P673

4.00PM–6.00PM

On language fragments of propositional fuzzy logics
Zuzana Hanikova
Institute of Computer Science, Academy of Sciences of the Czech Republic, CZECH REPUBLIC

Basic set-theoretical notions over fuzzy partial logic
Martina Dankova
IRAFM, University of Ostrava, CZECH REPUBLIC

Towards fuzzy partial logic of the first and higher orders
Liber Behounek
Institute for Research and Applications of Fuzzy Modeling, University of Ostrava, Czech Republic

Codensity and Stone spaces
Andrei Sipos
Institute of Mathematics of the Romanian Academy, ROMANIA

Completeness theorem for first-order algebraizable logics
Petr Cintula
Institute of Computer Science, Czech Academy of Sciences, CZECH REPUBLIC

Contributed Talks 7

Venue - P674

4.00PM–6.00PM

The expressive power of modal inclusion logic
Lauri Hella
University of Tampere, FINLAND
Johanna Stumpf
TU Darmstadt, GERMANY

Dimension theory for modal logics
Kerkiio Luosto
University of Helsinki, FINLAND

A maximal semantics for dependence logic
Fredrik Engström
University of Gothenburg, SWEDEN

Defining properties of teams in k-ary inclusion-exclusion logic
Raine Rönnholm
University of Tampere, FINLAND

Some proof theoretical results on propositional logics of dependence
Rosalie Iemhoff
Utrecht University, NETHERLANDS
Fan Yang
Utrecht University, NETHERLANDS

Definability in modal logics with team semantics
Jonni Virtema
Leibniz Universität Hannover, GERMANY

Contributed Talks 8

Venue - P722

4.00PM–6.00PM

Degree spectra of real closed fields
Russell Miller
Queens College and The Graduate Center – CUNY, UNITED STATES

Gödel's incompleteness property for a decidable fragment of arrow logic
Mohamed Khahed
Central European University, HUNGARY

Contributed Talks 9

Venue - P724

4.00PM–6.00PM

Gödel’s incompleteness property for a decidable fragment of arrow logic
Mohamed Khahed
Central European University, HUNGARY

Degrees of autostability for prime Boolean algebras
Margarita Marchuk
Sobolev Institute of Mathematics, RUSSIAN FEDERATION

Some proof theoretical results on propositional logics of dependence
Rosalie Iemhoff
Utrecht University, NETHERLANDS
Fan Yang
Utrecht University, NETHERLANDS

Degree spectra of real closed fields
Russell Miller
Queens College and The Graduate Center – CUNY, UNITED STATES

Contributed Talks 10

Nonstandard analysis approach to the mathematical foundations of quantum mechanics
Evgeny Gordon
Eastern Illinois University, UNITED STATES

Contextuality, cohomology and paradox
Samson Abramsky
Oxford University, UNITED KINGDOM

Temporal Logics for Continuous Collaborative Games
Farn Wang
National Taiwan University, TAIWAN

Homotopy Model Theory
Bric Halimi
Department of Philosophy, University Paris Ouest Nanterre La Défense, FRANCE
**Wednesday 5 August**

9.00AM–10.00AM

**Plenary Lecture: Danielle Macbeth**

Venue - PI

Logical Form, Mathematical Practice, and Frege’s Begriffsschrift
Danielle Macbeth
Haverford College, UNITED KINGDOM

10.00AM–10.30AM

**Coffee**

Venue - Porthania Lobby

10.30AM–11.30AM

**Tutorial 1.3**

Venue – PI

On the Set Theory of Generalized Logics
Menachem Magidor
Einstein Institute of Mathematics, Hebrew University of Jerusalem, ISRAEL

11.35AM – 1.05PM

**Special Session on Model Theory**

Venue - PI

Non-forking formulas in distal NIP theories
Gareth Boxall
Stellenbosch University, SOUTH AFRICA
Charlotte Kestner
University of Leeds, UNITED KINGDOM

Simple homogeneous structures
Vera Koponen
Uppsala University, SWEDEN

Lunch at the Main Building Unicafe (Fabianinkatu 33, co-located with CLMPS 2015) for participants who have purchased the additional lunch package.

2.30PM–3.30PM

**Plenary Lecture: Kobi Peterzil**

Venue - PI

Topological groups and stabilizers of types (joint work with S. Starchenko)
Kobi Peterzil
University of Haifa, ISRAEL

3.30PM–4.00PM

**Coffee**

Venue - Porthania Lobby

4.00PM–6.00PM

**Contributed Talks 11**

Venue - PI

Fields in Zariski-like structures
Kaisa Kangas
University of Helsinki, FINLAND

On near model completeness of generic structures
Koichiro Ikeda
Hosei University, JAPAN

Generalised stability of pseudofinite residue rings
Ricardo Bello Aguirre
University of Leeds, UNITED KINGDOM

Investigating an unstable generic structure
Ali Valizadeh
Amirkabir University of Technology, IRAN
Massoud Pourmahdian
Amirkabir University of Technology, IRAN

Some dynamical approaches to NIP theories
Alireza Mofti
Amirkabir University of Technology and IPM, IRAN
### Contributed Talks 12

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<th>Time</th>
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<th>Authors</th>
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<tr>
<td>4.00PM–6.00PM</td>
<td>PII</td>
<td><strong>Parametric polymorphism and the completeness of type theory</strong></td>
<td>Paolo Pistone, Università Roma Tre, ITALY</td>
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<td><strong>Types and operations</strong></td>
<td>Stanislaw Ambrożewicz, Institute of Computer Science, Polish Academy of Sciences, POLAND</td>
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<td><strong>On some universal system for various propositional logics.</strong></td>
<td>Anahit Chubaryan, Hakob Nalbandyan, Yerevan State University, ARMENIA; Sergey Sayadyan, Yerevan, ARMENIA</td>
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<td><strong>Arithmetical Conservation Results and Goodman’s Theorem</strong></td>
<td>Benno van den Berg, ILLC, University of Amsterdam, NETHERLANDS</td>
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<td><strong>Reverse mathematical bounds for the Termination Theorem</strong></td>
<td>Stefano Berardi, University of Torino, ITALY</td>
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<td><strong>Completeness of the Universal Hybrid Calculus</strong></td>
<td>Bill Wadge, University of Victoria, CANADA; Omar Alaqui, University of Victoria, CANADA</td>
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### Contributed Talks 13

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<tr>
<td>4.00PM–6.00PM</td>
<td>PIII</td>
<td><strong>Class-Forcing in Class Theory</strong></td>
<td>Carolin Antos, Kurt Gödel Research Center, University of Vienna, AUSTRIA</td>
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<td><strong>On the relationship between proper classes and forcing extensions</strong></td>
<td>Neil Barton, Birkbeck College, University of London, UNITED KINGDOM</td>
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<td><strong>A theory of truth equi-consistent with Quine’s New Foundations</strong></td>
<td>Graham Leigh, Vienna University of Technology, AUSTRIA</td>
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<td><strong>Completeness of infinitary intuitionistic logics</strong></td>
<td>Christian Espíndola, Stockholm University, SWEDEN</td>
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<td><strong>On the naturalness of Forcing Axioms</strong></td>
<td>Giorgio Venturi, Unicamp, ITALY</td>
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<td><strong>Sets and Set Theoretic Foundations</strong></td>
<td>Mark Adels, Birmingham City University, UNITED KINGDOM</td>
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### Contributed Talks 14

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<tr>
<td>4.00PM–6.00PM</td>
<td>P617</td>
<td><strong>Unifying Logic and Boolean Algebra</strong></td>
<td>Joachim Müller-Thenys, Private, GERMANY</td>
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<td><strong>Some infinitary paradoxes and undecidable sentences in Peano arithmetic</strong></td>
<td>Ka Yue Cheng, Eötvös Loránd University, HUNGARY</td>
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<td><strong>Peano arithmetic can well prove its own consistency</strong></td>
<td>Alexandr Bessonov, Institute of Philosophy and Law, Siberian Branch, Russian Academy of Sciences, Novosibirsk State University, RUSSIAN FEDERATION</td>
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<td><strong>Distributive normal forms</strong></td>
<td>Jaakko Hintikka, University of Helsinki, FINLAND</td>
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<td><strong>Three kinds of mathematical naturalness</strong></td>
<td>Benedikt Eastaugh, University of Bristol, UNITED KINGDOM</td>
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### Contributed Talks 15

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<th>Time</th>
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<tr>
<td>4.00PM–6.00PM</td>
<td>P673</td>
<td><strong>First steps towards justification logic</strong></td>
<td>Ioannis Kokkinis, Universität Bern, SWITZERLAND</td>
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<td><strong>A relational doxastic logic</strong></td>
<td>Thomas Benda, National Yang Ming University, TAIWAN</td>
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<td><strong>Big Brother Logic: visual-epistemic reasoning in multi-agent systems</strong></td>
<td>Olivier Gasquet, IRIT, UPS, FRANCE; Valentin Goranko, Stockholm University, SWEDEN; Francois Schwarzentruber, École normale supérieure de Rennes, SWEDEN</td>
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<td><strong>Effects in Modal Logics</strong></td>
<td>Alexandre Madere, HasLab - INESC TEC &amp; Minho University, PORTUGAL; Renato Neves, HasLab - INESC TEC &amp; Minho University, PORTUGAL; Manuel A. Martins, University of Aveiro, PORTUGAL; Luis Barbosa, Universidade do Minho, PORTUGAL</td>
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### Contributed Talks 16

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<tr>
<td>4.00PM–6.00PM</td>
<td>P723</td>
<td><strong>Application of Jump inversion for structures in the context of omega-enumeration reducibilities</strong></td>
<td>Alexandra Soskova, Sofia University, BULGARIA; Stefan Vatev, Sofia University, BULGARIA</td>
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<td><strong>Complexity of Orders on Groups</strong></td>
<td>Valentina Harizanov, George Washington University, UNITED STATES</td>
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<td><strong>Lowness for isomorphism as restricted to classes of structures</strong></td>
<td>Jacob Suggs, University of Connecticut, UNITED STATES</td>
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<td><strong>Algorithmic complexity of orders of groups</strong></td>
<td>Jennifer Chubb, University of San Francisco, UNITED STATES; Mieczyslaw Dabkowski, University of Texas, Dallas, UNITED STATES; Valentina Harizanov, George Washington University, UNITED STATES</td>
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<td><strong>Local computability and hereditarily finite superstructures</strong></td>
<td>Svetlana Aleksandrova, Novosibirsk State University, RUSSIAN FEDERATION; Nikolay Bazhenov, Sobolev Institute of Mathematics, Novosibirsk State University, RUSSIAN FEDERATION</td>
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<td><strong>Generalizing Godel’s and Rosser’s incompleteness theorems for nonrecursively enumerable theories</strong></td>
<td>Payam Seraji, University of Tabriz, IRAN; Saeed Salehi, Tabriz university, IRAN</td>
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There are no minimal pairs in $L[\phi(d)]$.

Mars Yamaleev
Kazan Federal University, RUSSIAN FEDERATION

Universal enumerations of families and hyperimmunity
Marat Faizrakhmanov
Kazan (Volga Region) Federal University, RUSSIAN FEDERATION

Degree spectra of n-families
Marat Faizrakhmanov
Kazan Federal University, RUSSIAN FEDERATION
Iskander Kalimullin
Kazan Federal University, RUSSIAN FEDERATION

On limitwise monotonic reducibility of sets and sequences
Damir Zaintetdinov
Kazan Federal University, RUSSIAN FEDERATION

Definability in the local theory of the $\omega$-Turing degrees
Andrey Sariev
Sofia University, BULGARIA

Hierarchies of n-r.e. sets in every non-zero r.e. degree
Dariusz Kalocinski
Institute of Philosophy, University of Warsaw, POLAND

The City of Helsinki hosts a welcome reception for the colloquium quests at the heart of the historic centre next to the sea-side Market Square. After a welcome speech by a city representative, the guests have a chance to enjoy a light buffet dinner and the architecture of the City Hall.

Cubical homotopy type theory and univalence
Steve Awodey
Carnegie Mellon University, UNITED STATES

On limitwise monotonic reducibility of sets and sequences
Damir Zaintetdinov
Kazan Federal University, RUSSIAN FEDERATION

Definability in the local theory of the $\omega$-Turing degrees
Andrey Sariev
Sofia University, BULGARIA

Hierarchies of n-r.e. sets in every non-zero r.e. degree
Dariusz Kalocinski
Institute of Philosophy, University of Warsaw, POLAND

The cruise operator Strooma organizes a special LC 2015 cruise to the Unesco World Heritage site, the Suomenlinna fortress island. The price includes a cruise to Suomenlinna and back on the ship M/S Aava, a guided tour on Suomenlinna, and a light on-board cruise dinner on the way back.

Programme:
14.30 M/S Aava departs from Kauppator Square
14.45 Guided walk on Suomenlinna (1.5 hours)
16.15 Cruise and light dinner on board
19.30 M/S Aava arrives at Kauppatori Market Square
FRIDAY 7 AUGUST

9.00AM–10.00AM
Plenary Lecture: Toshiyasu Arai
Venue - PI
Proof theory of set theories
Toshiyasu Arai
Chiba University, JAPAN

10.00AM–10.30AM
Coffee
Venue - Porthania Lobby

10.30AM–11.30AM
Tutorial 2.2
PI
Dependence and Independence in Logic
Erich Grädel
RWTH Aachen, GERMANY

11.35PM–12.00PM
Plenary Lecture: Ralf Schindler
Venue - PI
Martin’s Maximum, Woodin’s (*), or both?
Ralf Schindler
Institut für mathematische Logik und Grundlagenforschung, Fachbereich Mathematik und Informatik, Universität Münster, GERMANY

12.35PM–2.00PM
Lunch
Venue - Main Building Unicafe
Lunch at the Main Building Unicafe (Fabianinkatu 33, co-located with CLMPS 2015) for participants who have purchased the additional lunch package.

2.00PM–3.30PM
Special Session on Model Theory
Venue - PII
The field of p-adic numbers with a predicate for the powers of a natural number
Nathanaël Mauriule
Napoli
Imaginaries and definable types in valued differential fields
Silvain Rideau
École normale supérieure, Paris, FRANCE

2.00PM–3.30PM
Special Session on Computability Theory
Venue - PII
Bounded low and high sets
Bernard Andresson
Gordon State College, UNITED STATES
Barbara Csima
University of Waterloo, CANADA
Karen Lange
Wellesley College, UNITED STATES
Ekaterina Fokina
Kurt Goedel Research Center, AUSTRIA

2.00PM–3.30PM
Special Session on Philosophy of Mathematics and Logic
Venue - PIV
Towards an understanding of mathematical understanding
Janet Folina
Macalester College, USA
Instrumental nominalism about set-theoretic structuralism
Richard Pettigrew
University of Bristol, UNITED KINGDOM

3.30PM–4.00PM
Coffee
Venue - Porthania Lobby

4.00PM–6.00PM
Contributed Talks 18
Venue – PI
Cellular objects and Shelah’s singular compactness theorem
Tibor Beke
University of Massachusetts Lowell, UNITED STATES
Jiri Rosicky, Masaryk University Brno, CZECH REPUBLIC
Locally projective modules and large cardinals
Juan Nido
Universidad Autónoma de la Ciudad de México, MEXICO
Gabriel Salazar
Institute of Mathematics, Polish Academy of Sciences, POLAND
Luis Villaga
Universidad Autónoma Metropolitana, MEXICO
Topological dynamics and invariant equivalence relations
Tomasz Rzepecki

4.00PM–6.00PM
Contributed Talks 19
Venue - PII
Some applications of dependently sorted logic in constructive mathematics
Erik Palmgren
Stockholm University, SWEDEN
Justifying path induction
Patrick Walsh
Carnegie Mellon University, UNITED STATES
Admissibility of the structural rules in Kanger’s sequent calculus for first order logic with equality
Franco Parlamento
Università di Udine, ITALY
Federico Munini
Università di Udine, ITALY
Rosser-type Henkin sentences and local reflection principles
Taishi Kurahashi
Kisarazu National College of Technology, JAPAN
Uniform interpolation in weak Grzegorczyk logic and GÎ³’od-Î¹L’L’ logic
Majid Alizadeh
University of Tehran, IRAN
Farzaneh Derakhshan
University of Tehran, IRAN
Hiroakira Ono
Japan Advanced Institute of Science and Technology, JAPAN

Universytet Wroclawski, POLAND
Around the set-theoretical consistency of d- tameness of metric abstract elementary classes
Pedro Zambrano
Universidad Nacional de Colombia, COLOMBIA
Will Boney
University of Illinois at Chicago, UNITED STATES
On weakly generic automorphisms of homogeneous structures
Gabor Sagi
Alfred Renyi Institute of Mathematics, HUNGARY
Metric AECs as accessible categories
Michael Lieberman
Masaryk University, CZECH REPUBLIC
Jiri Rosicky
Masaryk University, CZECH REPUBLIC
A simplification of the Theory of Constructions
Walter Dean
University of Warwick, UNITED KINGDOM
Hidenori Kurokawa
Kobe University, JAPAN

4.00PM–6.00PM

Contributed Talks 21
Venue - PIV

4.00PM–6.00PM

Contributed Talks 22
Venue - P617

4.00PM–6.00PM

Contributed Talks 23
Venue - P673

A dichotomy theorem for the generalized Baire space and elementary embeddability at uncountable cardinals
Dorottya Sziraki
Central European University, Department of Mathematics, HUNGARY
Jouko Vaananen
University of Helsinki, FINLAND
University of Amsterdam, THE NETHERLANDS

Wadge hierarchy of differences of coanalytic sets
Kevin Fournier
UNIL - PARIS VII, SWITZERLAND

A general extension theorem for complete partial orders
Daniel Wessel
University of Trento, ITALY
Peter Schuster
University of Verona, ITALY

On the topological complexity of the density sets of the real line
Gemma Carotenuto
Università di Salerno, ITALY

On equivalence relations generated by Schauder bases
Longyun Ding
Nankai University, CHINA

Regularity properties on the generalized reals
Yuji Khomskii
University of Hamburg, GERMANY

Computational Complexity of Barwise’s Sentence and Similar Natural Language Constructions
Michał Tomasz Godziszewski
University of Warsaw, POLAND
Dariusz Kalociński
Institute of Philosophy, University of Warsaw, POLAND

Inside the second level of the Mostowski-index hierarchy of the $\mu$-calculus
Jacques Duparc
University of Lausanne, SWITZERLAND
Alessandro Facchini
IDSIA, SWITZERLAND
Kevin Fournier
UNIL - PARIS VII, SWITZERLAND
Henryk Michalewski
Faculty of Mathematics, Informatics and Mechanics, University of Warsaw, POLAND

A note on descriptive complexity of k-SUM
Luis Henrique Bustamante
UFC, BRAZIL
Ana Teresa Martins
Universidade Federal do Ceará, BRAZIL

Some notes about lower bounds for steps and sizes of proofs in Frege systems.
Anahit Chubaryan
Yerevan State University, ARMENIA
Armine Chubaryan
Yerevan State University, ARMENIA
Arman Tshitoyan
Yerevan State University, ARMENIA

Asynchronous automata transformations of prefix decidable and Buchi decidable infinite words
Natalia Korneeva
Kazan (Volga Region) Federal University, RUSSIAN FEDERATION

Transfinite graded Turing progressions and modal logic
Eduardo Hermo Reyes
University of Barcelona, SPAIN
Joost J. Joosten
University of Barcelona, SPAIN

Leon Chwistek’s Rational Semantics and Contemporary Computation
Hubert Bożek
Pedagogical University of Cracow, POLAND

The Logic of Algorithmic Knowledge
Dariusz Surowik
University of Białystok, POLAND

Hard and soft logical information
Patrick Allo
Vrije Universiteit Brussel, BELGIUM

Default and non-monotonic spatial reasoning
Przemysław Wałęga
University of Warsaw, POLAND

On the lattice structure of generic common knowledge fixed points
Evangelia Antonakos
Bronx Community College, CUNY, UNITED STATES

Hypercomplex numbers for the semantics of self-reference statements
Vladimir Stepanov
Dorodnicyn Computing Centre of RAS, RUSSIAN FEDERATION

Some Conceptual Hypotheses on Information Entropy, Chaos and Implicit Contradictions.
Antonio Vincenzi
ASFP, ITALY

A Knowledge First Epistemic Logic of Knowledge and Belief
Syraoy Chin-Mu Yang
National Taiwan University, TAIWAN

Continuous vs Discrete
Evgeny Gordon
Eastern Illinois University, UNITED STATES

Exact Numerals as Vague Quantifiers
Paula Quinon
Department of Philosophy, Lund University, SWEDEN

Librationalist Capture and Dominination of Definable Real Numbers
Frode Bjørdal
The University of Oslo, NORWAY

The World of Logic
Jan Wolenski
WSIZ Rzeszów, UJ Krakow, POLAND

Round squares are no contradictions
Jean-Yves Beziau
UFRJ, BRAZIL
UCSD, UNITED STATES
4.00PM–6.00PM

**Contributed Talks 25**

**Venue - P722**

**Universal binary relations, preorders, and graphs**
Luca San Mauro
Scuola Normale Superiore, ITALY

**Computable numberings of partial computable functionals**
Sergey Ospichev
Novosibirsk State University, RUSSIAN FEDERATION
Sobolev Institute of Mathematics, RUSSIAN FEDERATION

**Reductions between Types of Numberings**
Manat Mustafa
Department of Mathematics of School of Science and Technology (SST), Nazarbayev University, KAZAKHSTAN

**A-computable numberings of the families of total functions**
Assylbek Issakhov
Al-Farabi Kazakh National University, KAZAKHSTAN

**Formalization of Ontology and its Algorithmic Properties**
Jamalbek Tussupov
Eurasian National University, KAZAKHSTAN
Madina Sambetbaeva
Eurasian National University, KAZAKHSTAN

**Some new definability and complexity results in monadic second-order arithmetic**
Stanislav Speranski
Sobolev Institute of Mathematics, RUSSIAN FEDERATION

4.00PM–6.00PM

**Contributed Talks 26**

**Venue - P723**

**Heyting duality as an application of fundamental categorical duality theorem**
Mustafa Demirci
Akdeniz University, TURKEY

**Effective representation in point-free theories**
Vladislav Nenchev
Sofia University “St. Kliment Ohridski”, BULGARIA

**Suppes-style rules for probability logic**
Marija Borić
Faculty of Organizational Sciences, University of Belgrade, SERBIA

**Linear Logics of Agency**
Daniele Porello
Laboratory for Applied Ontology, Institute for Cognitive Sciences and Technologies, ISTC, CNR, ITALY

**A proof-theoretic criterion of synonymy and the distinction between intensional and extensional harmony**
Luca Tranchini
Eberhard-Karls-Universität Tübingen, GERMANY

**Surreal numbers, derivations and transseries**
Alessandro Berarducci
Dipartimento di Matematica, Universita' di Pisa, ITALY
Vincenzo Luca Mantova
Scuola Normale Superiore, Pisa, ITALY

**Properties of central type for fragments of Jonsson sets**
Aibat Yeshkeyev
Karaganda State University, KAZAKHSTAN

7.30PM–12.00AM

**Congress Dinner**

**Venue - Restaurant Bank (Unioninkatu 20)**

The congress dinner is served at the Restaurant Bank, conveniently located a few blocks away from the colloquium venue. The dinner quests a treated to a three course meal in the functionalist-style old bank building with unique wall paintings and ornaments. Restaurant Bank focuses on modern Finnish cuisine prepared from the best seasonal ingredients.

The Congress Dinner requires online preregistration. The price of the dinner is 50 € (incl. three courses and accompanying wines). There might be some extra dinner tickets for sale at the Congress Office (the Porthania lobby) during the first colloquium days.

4.00PM–6.00PM

**Contributed Talks 27**

**Venue - P724**

**Diagrams and small theories**
Aida Alibek
University of Illinois at Chicago, UNITED STATES
Bektur Baizhanov
Institute of Mathematics and Mathematical Modelling, UNITED STATES
John Baldwin
University of Illinois at Chicago, UNITED STATES
Aisha Yershigeshova
Institute of Mathematics and Mathematical Modelling, UNITED STATES
Tatyana Zambarnaya
Institute of Mathematics and Mathematical Modelling, UNITED STATES

**Zero-one laws for edge weighted graphs**
Caroline Terry
University of Illinois at Chicago, UNITED STATES

**Integration on the Surreals: A Conjecture of Conway, Kruskal and Norton**
Philip Ehrlich
Ohio University, UNITED STATES
Ovidiu Costin
The Ohio State University, UNITED STATES

**Surreal numbers, derivations and transseries**
Alessandro Berarducci
Dipartimento di Matematica, Universita' di Pisa, ITALY
Vincenzo Luca Mantova
Scuola Normale Superiore, Pisa, ITALY

**Properties of central type for fragments of Jonsson sets**
Aibat Yeshkeyev
Karaganda State University, KAZAKHSTAN
SATURDAY 8 AUGUST

9.00AM–10.00AM
Plenary Lecture: Sergei Artemov
Venue - PI
Constructive knowledge
Sergei Artemov
CUNY, UNITED STATES

10.00AM–10.30AM
Coffee
Venue - Porthania Lobby

10.30AM–11.30AM
Tutorial 2.3
PI
Dependence and Independence in Logic
Erich Grädel
RWTH Aachen, GERMANY

1.00AM–2.00PM
Plenary Lecture: Andrei Morozov
Venue - PI
Computable model theory over the reals: some results and problems
Andrei Morozov
Novosibirsk, RUSSIAN FEDERATION

2.05PM–3.35PM
Plenary Lecture: Ilias Farah
Venue: PI
Quantum ultrafilters
Ilias Farah
York University, CANADA
+ closing words (30 min)

11.30AM–1.00PM
Lunch
Venue - Main Building Unicafe
Lunch at the Main Building Unicafe (Fabianinkatu 33, co-located with CLMPS 2015) for participants who have purchased the additional lunch package.