

**22<sup>nd</sup> International Conference on Types for Proofs and  
Programs – TYPES 2016**  
*Novi Sad, Serbia, 23-26/5/2016*

**Sunday, 22/5/2016 17-19h Registration**

**Monday, 23/5/2016**

<b>8:00-9:00</b>	<b>Gathering &amp; Registration</b>
<b>9:00 – 10:30</b>	<b>Session 1</b>
9:00–9:30	<i>Opening ceremony</i>
9:30 – 10:30	<b>Invited talk:</b> Simona Ronchi Della Rocca Intersection types for denotational semantics
<b>10:30-11:00</b>	<b>Coffee break</b>
<b>11:00-12:40</b>	<b>Session 2</b>
11:00 - 11:20	Jan Bessai, Andrej Dudenhefner, Boris Duedder and Jakob Rehof. Rank 3 Inhabitation of Intersection Types Revisited
11:20 - 11:40	Jan Bessai, Andrej Dudenhefner, Boris Duedder and Jakob Rehof. Extracting a formally verified Subtyping Algorithm for Intersection Types from Ideals and Filters
11:40 - 12:00	José Espírito Santo, Maria João Frade and Luís Pinto. Computing with intuitionistic sequent proof terms: progress report
12:00 - 12:20	Aleksy Schubert and Pawel Urzyczyn. Answer Set Programming in Intuitionistic Logic
12:20 - 12:40	Ralph Matthes. A Structural Approach to the Stretching Lemma of Simply -Typed Lambda-Calculus
<b>12:40 - 14:20</b>	<b>Lunch</b>
<b>14:20 - 15:40</b>	<b>Session 3</b>
14:20 – 14:40	Sergei Soloviev. Automorphisms of Types, Cayley Graphs and Representation of Finite Groups
14:40 – 15:00	Pierre-Louis Curien and Jovana Obradović. A formal language for cyclic operads
15:00 – 15:20	Anton Setzer. The Use of the Coinduction Hypothesis in Coinductive Proofs
15:20 – 15:40	Andreas Abel and Théo Winterhalter. An Extension of Martin-Löf Type Theory with Sized Types
<b>15:40 – 16:10</b>	<b>Coffee break</b>

<b>16:10 – 17:50</b>	<b>Session 4</b>
16:10 – 16:30	Thorsten Altenkirch and Nils Anders Danielsson. Partiality, Revisited
16:30 – 16:50	Neil Ghani, Fredrik Nordvall Forsberg and Alex Simpson. A Type Theory for Comprehensive Parametric Polymorphism
16:50 – 17:10	Randy Pollack and Masahiko Sato. $\beta$ reduction without rule $\xi$
17:10 – 17:30	Andrew Polonsky and Giulio Manzonetto. On Unification of Lambda Terms
17:30 – 17:50	Silvia Ghilezan, Jelena Ivetić, Zoran Ognjanović and Nenad Savić. Towards probabilistic reasoning about lambda terms with intersection types

### Tuesday, 24/5/2016

<b>9:00 – 10:40</b>	<b>Session 5</b>
9:00 – 9:20	Pierre-Marie Pédrot and Andrej Bauer. The Dialectica Translation of Type Theory
9:20 – 9:40	Valentin Blot. Hybrid realizability for intuitionistic and classical choice
9:40 – 10:00	Pierre-Marie Pédrot, Guilhem Jaber, Nicolas Tabareau, Matthieu Sozeau and Gabriel Lewertowski. The Definitional Side of the Forcing
10:00 – 10:20	Thorsten Altenkirch, Paolo Capriotti and Nicolai Kraus. Higher Categories in Homotopy Type Theory
10:20 – 10:40	Jesper Cockx and Andreas Abel. Sprinkles of extensionality for your vanilla type theory
<b>10:40-11:10</b>	<b>Coffee break</b>
<b>11:10-12:30</b>	<b>Session 6</b>
11:10 – 11:30	Jacek Chrząszcz and Aleksy Schubert. Towards Readable Program Correctness Proofs in Coq
11:30 – 11:50	Łukasz Czajka and Cezary Kaliszyk. Components of a Hammer for Type Theory: Coq Goal Translation and Reconstruction
11:50 – 12:10	James Chapman and Andreas Abel. Normalization by Evaluation in the Delay Monad
12:10 – 12:30	Adam Naumowicz and Josef Urban. A Guide to the Mizar Soft Type System
<b>12:30-14:30</b>	<b>Lunch</b>
<b>14:30-17:30</b>	<b>Excursion</b>

### Wednesday, 25/5/2016

<b>9:00 – 10:30</b>	<b>Session 7</b>
9:00–9:30	COST EUTypes
9:30 – 10:30	<b>Invited talk:</b> Dale Miller Mechanized metatheory revisited
<b>10:30-11:00</b>	<b>Coffee break</b>
<b>11:00-12:40</b>	<b>Session 8</b>
11:00 - 11:20	Thorsten Altenkirch and Ambrus Kaposi. Normalisation by Evaluation for Dependent Types
11:20 - 11:40	Henning Basold and Herman Geuvers. Type Theory based on Dependent Inductive and Coinductive Types
11:40 - 12:00	Zhaohui Luo and Yu Zhang. A Linear Dependent Type Theory
12:00 - 12:20	Andreas Abel, Thierry Coquand and Bassel Manna. On the Decidability of Conversion in Type Theory
12:20 - 12:40	Paola Giannini, Elena Zucca and Marco Servetto. An imperative calculus for unique access and immutability
<b>12:40 - 14:20</b>	<b>Lunch</b>
<b>14:20 - 15:40</b>	<b>Session 9</b>
14:20 – 14:40	Herman Geuvers and Tonny Hurkens. If-then-else and other constructive and classical connectives
14:40 – 15:00	Étienne Miquey and Hugo Herbelin. A computational reduction of dependent choice in classical logic to system F
15:00 – 15:20	Marina Lenisa, Furio Honsell, Ivan Scagnetto and Luigi Liquori. On the Set Theory of Fitch-Prawitz
15:20 – 15:40	Gilles Dowek. Expressing theories in the lambda-Pi-calculus modulo theory and in the Dedukti system
<b>15:40 – 16:10</b>	<b>Coffee break</b>
<b>16:10 – 17:30</b>	<b>Session 10</b>
16:10 – 16:30	Robin Adams, Marc Bezem and Thierry Coquand. A Strongly Normalizing Computation Rule for the Univalence Axiom in Higher- Order Propositional Logic
16:30 – 16:50	Nicolai Kraus. Non-Recursive Truncations
16:50 – 17:10	Ulrik Buchholtz and Egbert Rijke. The quaternionic Hopf fibration in homotopy type theory
17:10 – 17:30	Auke Booij. Parametricity and excluded middle

**Thursday, 26/5/2016**

<b>9:00 – 10:20</b>	<b>Session 11</b>
---------------------	-------------------

9:00–10:00	<b>Invited talk:</b> Simon Gay Session Types: Achievements and Challenges
10:00 – 10:20	Bogdan Aman and Gabriel Ciobanu. Type Inference for Ratio Control Multiset-Based Systems
<b>10:20-11:00</b>	<b>Coffee break</b>
<b>11:00-12:40</b>	<b>Session 12</b>
11:00 - 11:20	Marco Carbone, Fabrizio Montesi and Carsten Schuermann. Towards a Logic of Multi-Party Sessions
11:20 - 11:40	Ohad Kammar, Sean Moss and Matija Pretnar. No value restriction is needed for algebraic effects and handlers
11:40 - 12:00	Andrej Bauer. On self-interpreters for Gödel's System T
12:00 - 12:20	Lars Birkedal, Ales Bizjak, Ranald Clouston, Hans Bugge Grathwohl, Bas Spitters and Andrea Vezzosi. Guarded cubical type theory
12:20 - 12:40	Colin Riba. A Dialectica-Like Approach to Tree Automata
<b>12:40 - 14:20</b>	<b>Lunch</b>
<b>14:20 - 15:40</b>	<b>Session 13</b>
14:20 – 14:40	Bashar Alkhalil and Anton Setzer. Representing the Process Algebra CSP in Type Theory
14:40 – 15:00	Andrej Bauer, Gaëtan Gilbert, Philipp Haselwarter, Matija Pretnar and Christopher A. Stone. Design and Implementation of the Andromeda proof assistant
15:00 – 15:20	Adam Sandberg Eriksson and Patrik Jansson. FLABloM: Functional linear algebra with block matrices
15:20 – 15:40	Jakob von Raumer. My Experience with the Lean Theorem Prover
<b>15:40 – 16:10</b>	<b>Coffee break</b>
16:10 – 18:00	<b>EUTypes WG</b>
14:00 – 18:00	<b>CLA 2016 – Sessions 1&amp;2</b>

**Friday, 27/5/2016**

<b>9:00–13:00</b>	<b>CLA 2016 – Sessions 3&amp;4</b>
-------------------	------------------------------------