## FroCoS/ITP/TABLEAUX 2025 programme (as of 23 Sept)

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Robert Krebbers, Luko van der Maas, Enrico Tassi. Inductive Predicates via Least Fixpoints in Higher-Order Separation Logic  ITP 3 Chair: Michael Norrish Burak Ekci, Tadyosoli Kamegai, Nabuko Yoshida. Formalising Subject Reduction and Burak Ekci, Tadyosoli Kamegai, Nabuko Yoshida. Formalising Subject Reduction and Burak Ekci, Tadyosoli Kamegai, Nabuko Yoshida. Formalising Subject Reduction and Anuparn Das and Abhishek De. Cyclic System for an Algebraic Theory of Alternating Pari Aluparn Das and Abhishek De. Cyclic System for an Algebraic Theory of Alternating Pari Niklas Heidler and Reiner Hahnle. A Sequent Calculus for Trace Formula Implication  Magnus Myreen, Mario Cameiro, GOL in GOL in HOL: Verified Circuits in Conway's Game of Life Bafeal Castro G. Silva, Lauone Fernet, Dmitrry Traytel. Nondeterministic Asynchronous Datafow in Isabelie/HOL Formalization of Semi-Thue and Conditional Semi-Thue Systems Reynald Affeldt, Alessandro Bruni, Cyril Cohen, Pierre Roux, Takafumi Saikawa. Formalizing Concentration Inequalities in Rocq: Infrastructure and Automation Nadeem Abdul Hamid: Dwards Automating Fernutation Proofs in Coq. Reflexive Approach with Iterative Despening Search (Short paper, 20 mins)  1-12-20  TP 5 Chair: Lawrence Faulson Jeremy Thilbault, Joseph Lenormand, Catalin Hritcu. Nanopass Back-Translation of Call- Return Trees for Mechanized Secure Complistion Proofs Sage Binder, Eric Ren, Katherine Kosaian. Formalizing the Hidden Number Problem in Isabelie/HOL David Knothe, Oliver Bringmann. On Verifying Secret Control Flow Elimination David Castro Perez, Marco Paviotis, Michael Vollmer, Program Optimisations via Hyllomorphisms for Extraction of Exercision Complex Control Proof Control Research Proofs (Lange Research) Additional Castro Perez, Marco Paviotis, Michael Vollmer, Program Optimisations via Hyllomorphisms for Extraction of Executable Code  TP 7 Chair: Manuel Eberl Chun Tian, Michael Normish, Mechanising Böhm Trees and Ap-Completeness Adirena Lancelut, Beniamina Accatable Code  TP 7 Chair: Manuel		Laura Titolo. Tanning Floating-Fornt Rounding Lifers with Floors	
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Tue 30 Sept	ITP - room M209	FroCoS - room V109
9-10:30	ITP 8 Chair: Yannick Forster Kathrin Stark. Autosubst: On Mechanising Binders in a General-Purpose Proof Assistant	FroCoS 2 Chair: Christophe Ringeissen Daniel Ranalter, Cezary Kaliszyk, Florian Rabe and Geoff Sutcliffe. The Dependently Typed Higher-Order Form for the TPTP World Anela Lolic, Matthias Baaz and Mariami Gamsakhurdia. An Analytic Representation of the Semantics of First-Order S5
	Jan van Brügge, Andrei Popescu, Dmitriy Traytel. Animating MRBNFs: Truly Modular Binding-Aware Datatypes in Isabelle/HOL	Nicolas Peltier, Quentin Petitjean and Mihaela Sighireanu. Deciding Satisfiability for Overlaid Symbolic Heaps
11-12:30	ITP 9 Chair: Dmitriy Traytel Mohammad Abdulaziz, Thomas Ammer, Shriya Meenakshisundaram, Adem Rimpapa. A Formal Analysis of Algorithms for Matroids and Greedoids	FroCoS 3 Chair: Carsten Fuhs Martin Avanzini and Akihisa Yamada. Weighted Rewriting
	Emin Karayel, Seng Joe Watt, Derek Khu, Kuldeep S. Meel, Yong Kiam Tan. Verification of the CVM Algorithm with a Functional Probabilistic Invariant Manuel Eberl, Peter Lammich. Verifying an Efficient Algorithm for Computing Bernoulli Numbers	Samuel Frontull, Manuel Meitinger and Georg Moser. Data-Driven Runtime Complexity Analysis Analysis Fundamentall, Paliath Narendran and Christophe Ringeissen. Graph Embedded Rewrite Systems: Combination and Undecidability Results
14:30-16 (1)	ITP - room M105 ITP 10 Chair: Pierre Boutry	FroCoS 4 Chair: René Thiemann
14.50 10 (.)	Anshula Gandhi, Anand Rao Tadipatri, Timothy Gowers. Automatically Generalizing Proofs and Statements Chase Norman, Jeremy Avigad. Canonical for Automated Theorem Proving in Lean	Carsten Fuhs. Automated Static Program Analysis via Constrained Term Rewriting
	Johannes Tantow, Lukas Gerlach, Stephan Mennicke, Markus Krötzsch. Verifying Datalog Reasoning with Lean	Naoki Nishida, Misaki Kojima and Yuto Nakamura. Difference of Constrained Patterns in Logically Constrained Term Rewrite Systems
16:30-18 (!)		FroCoS 5 Chair: Haniel Barbosa
	Business meeting Community meeting	Tanguy Bozec and Jasmin Blanchette. Iterative Monomorphisation Colin Rothgang and Florian Rabe. Subtyping in Dependently-Typed Higher-Order Logic Claudia Schon. Context-Aware Clause Selection Using Symbol Name Meanings in Theorem
		Proving
Wed 1 Oct	ITP - room M105	FroCoS - room M115
9-10:30	ITP 12 Chair: Maria Inés de Frutos-Fernández Eric Wang, Arohee Bhoja, Cayden Codel, Noah G. Singer. Algebra is Half the Battle: Verifying Presentations for Graded Unipotent Chevalley Groups	FroCoS 6 Chair: Guilherme Toledo Parosh Aziz Abdulla, Mohamed Faouzi Atig, Julie Cailler, Chencheng Liang and Philipp Rümmer. When GNNs Met a Word Equations Solver: Learning to Rank Equations
	Lawrence Paulson. Formalising New Mathematics in Isabelle: Diagonal Ramsey  Peter Koepke. A Natural Language Formalization of Perfectoid Rings in Naproche	Sören Möller, Florian Bruse and Martin Lange. A Finite Abstraction of Real-Valued Functions for Complete Reasoning about Influence Guilherme Toledo and Yoni Zohar. Number Theory Combination: Natural Density and SMT
11-12:30	ITP 13 Chair: Johan Commelin Antoine Chambert-Loir, Maria Inés de Frutos-Fernández. A Formalization of Divided Powers	FroCoS 7 Chair: Mathias Fleury Rodrigo Raya and Christophe Ringeissen. Polite Combination in Parametric Array Theories
	in Lean Jonas Bayer, Marco David. A Formal Proof of Complexity Bounds on Diophantine Equations	Benjamin Przybocki, Guilherme Toledo and Yoni Zohar. Shininess, Strong Politeness, and
	Yves Bertot, Thomas Portet. Formally Verifying a Vertical Cell Decomposition Algorithm	Unicorns Gabriele Masina and Roberto Sebastiani. Exploiting Partial-Assignment Enumeration in Optimization Modulo Theories
14-15:30	ITP 14 Chair: Loïc Pujet Arnoud van der Leer, Kobe Wullaert, Benedikt Ahrens. Scott's Representation Theorem and the Univalent Karoubi Envelope Stefania Damato, Thorsten Altenkirch, Axel Ljungström. Formalising Inductive and Coinductive Containers	FroCoS 8 Chair: Kaustuv Chaudhuri Alessio Coltellacci and Stephan Merz. Checking Linear Integer Arithmetic Proofs in Lambdapi Alberto Griggio, Giulia Sindoni and Stefano Tonetta. Certifying rlive: A New Proof Strategy for Liveness Model Checking [online]
	Mario Carneiro, Emily Riehl. Formalizing colimits in Cat	Business meeting
16-17:50	ITP 15 Chair: Mohammad Abdulaziz Asta Halkjær From, Anders Schlichtkrull. Abstract, Compositional Consistency: Isabelle/- HOL Locales for Completeness à la Fitting Ekaterina Zhuchko, Hendrik Maarand, Margus Veanes, G. Ebner. Finiteness of Symbolic Derivatives in Lean Remi Desmartin, Omri Isac, Ekaterina Komendantskaya, Kathrin Stark, Grant Passmore,	
	Guy Katz. A Certified Proof Checker for Deep Neural Network Verification in Imandra  Eric Vin, Kyle Miller, Daniel J. Fremont. LeanLTL: A Unifying Framework for Linear Temporal Logics in Lean (short paper, 20 mins)	
Thu 2 Oct	Lean - room M117	
9-10:30	Lean 1 Joachim Breitner. Report from the FRO (60 mins)	
	Jhet Chan. Gödel Mirror: A Paraconsistent Calculus Mechanized in Lean 4 (20 mins) [online]	
11-12:30	Lean 2 Mauricio Barba da Costa. Automatic Geometry Theorem Proving Using Polynomial Elaboration (20 mins) [online] Moritz Firsching. The Formal Conjectures Repo (20 mins)	
	Lukas Gerlach. Formalizing Possibly Infinite Trees of Finite Degree (20 mins)	
	Yulu Pan. Verifying a Real-World Regex Implementation	
14-15:30	Lean 3 Discussion session	
16-17:30	Lean 4 Luc Duponcheel. Teaching Programming using Lean (20 mins)	
	Jesse Alama. Euler's Polyhedron Formula à la Lean (20 mins)	
	Jovan Gerbscheid. Generalized Rewriting (20 mins)	
	Chase Norman. Canonical: Simplify, Monomorphize, Destruct	