FroCoS/ITP/TABLEAUX 2025 programme (as of 24 Sept)

P-10:30 Rocq 1 (9:00-10:40) Reynald Affeldt. An Overview of MathComp-Analysis and Its Applications (50 mins) Pierre-Emmanuel Wulfman. An Engineer's Self-Taught Journey with the Rocq Proof Assistant (25 mins) [online] Alexandre Jean. A Library for the Automated Transformation of Rocq AST (25 mins) [online] Vitor Rodrigues Greati, Sérgio Marcelino, Mig Analytic Calculi for Logics of Indicative Condi 11-12:30 Rocq 2 (11:05-12:30) Thibaut Benjamin. Generating Higher Identity Proofs in Homotopy Type Theory (25 mins) [online] Takafumi Saikawa, Kazunori Matsuda and Yosuke Tsuji. Formalization of Matching Numbers with finmap and mathcomp-classical Paolo Torrini and Benjamin Gregoire. Interaction Trees and Verified Compilation 14-15:30 Rocq 3 (14:05-15:25) Antoine Gontard. Automating Alignments of HOL Light Inductive Types and Recursive Functions in Rocq (25 mins) [online] Pierre Corbineau, Basile Gros and Jean-François Monin. Certified Programming with Dependent Types Made Simple with Proxy-Based Small Inversions Tomás Díaz, Kenji Maillard, Johann Rosain, Matthieu Sozeau, Nicolas Tabareau, Éric Tanter and Théo Winterhalter. Extending Sort Polymorphism with Elimination Constraints in Rocq (25 mins) [online]	inquisitive Logics: Sequent Calculi and guel Muñoz Pérez and Umberto Rivieccio. titionals amanayake. Analytic Proofs for Tense Logic Decision Procedures for Multimodal Tense and Yde Venema. Interpolation for Converse ve
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(25 mins) [online]	icultionistic Multimodal K Logics
16-17:30 Rocq 4 (16-17:45) TABLEAUX 4 Chair: Matteo Acclavio	
Théo Stoskopf, Jules Viennot and Cyril Cohen. LLM4Docq: Bootstrapping Documentation for MathComp with LLMs and Expert Feedback (25 mins) [online] Tiziano Dalmonte and Marianna Girlando. A F	Proof-Theoretic View of Basic Intuitionistic
Max Ole Elliger and Tadeusz Litak. Can States Be Decidable in Inquisitive Mechanizations? Lide Grotenhuis and Bahareh Afshari. Intuitio	nistic mu-Calculus with the Lewis Arrow
Jules Viennot, Guillaume Baudart, Emilio Jesus Gallego Arias and Marc Lelarge. MiniF2F in Sonia Marin and Paaras Padhiar. Justification	Logic for Intuitionistic Modal Logic
Rocq: Automatic Translation Between Proof Assistants: A Case Study (25 mins) [online]	
Christopher Mary. HotdocX & jsCoq: A Platform for Interactive, Al-Augmented and	
Monetizable Coq Experiences (25 mins) [online]	
Sun 28 Sept TTP - room M105 TABLEAUX - room M104	
11-12:30 ITP 1 Chair: Julie Cailler TABLEAUX 5 Chair: Tarmo Uustalu	
Hanna Lachnitt, Mathias Fleury, Haniel Barbosa, Andrew Reynolds, Jibiana Jakpor, Bruno Raheleh Jalali. Skolemization Beyond Intuitio	nistic Logic: The Role of Quantifier Shifts
Andreotti, Clark Barrett, Hans-Jörg Schurr, Cesare Tinelli. Improving the SMT Proof Reconstruction Pipeline in Isabelle/HOL	
Ghilain Bergeron, Florent Krasnopol, Sophie Tourret. Formalizing Splitting in Isabelle/HOL	
Martin Desharnais, Jasmin Blanchette. Sledgehammering without ATPs (short paper 20 Victor Barroso-Nascimento, Ekaterina Piotrov	skava and Elaine Pimentel. A Sequent
min) Calculus Perspective on Base-Extension Sem	
14-15:30 ITP 2 Chair: René Thiemann TABLEAUX 6 Chair: Anupam Das	
Laura Titolo. Taming Floating-Point Rounding Errors with Proofs Kaustuv Chaudhuri, Arunava Gantait and Dal	e Miller. Designing a Safe Forward Chaining
Tactic Using Productive Proofs Matteo Acclavio and Lutz Straßburger. Intuitio	onistic RV
Robert Krebbers, Luko van der Maas, Enrico Tassi. Inductive Predicates via Least Fixpoints in Higher-Order Separation Logic Niccolò Veltri and Cheng-Syuan Wan. An Agdi	a Formalization of Nonassociative Lambek
16-18 ITP 3 Chair: Michael Norrish TABLEAUX 7 Chair: Niccolò Veltri	
Burak Ekici, Tadayoshi Kamegai, Nobuko Yoshida. Formalising Subject Reduction and Anupam Das and Abhishek De. Cyclic System	n for an Algebraic Theory of Alternating Parit
Progress for Multiparty Session Processes Eliane Li, Thomas Wies. Certified Implementability of Global Multiparty Protocols Niklas Heidler and Reiner Hähnle. A Sequent	Calculus for Trace Formula Implication
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Magnus Myreen, Mario Carneiro. GOL in GOL in HOL: Verified Circuits in Conway's Game of Clemens Eisenhofer, Theodor Seiser, Laura K Equations via Powers and Parikh Images	ovács and Nikolaj Bjørner. On Solving String
Rafael Castro G. Silva, Laouen Fernet, Dmitriy Traytel. Nondeterministic Asynchronous Business meeting	
Dataflow in Isabelle/HOL	
Mon 29 ITP - room M110 TABLEAUX - room M115	
9-10:30(20) ITP 4 Chair: Sophie Tourret TABLEAUX 8 Chair: Marianna Girlando	
	A A 11
Dohan Kim. An Isabelle/HOL Formalization of Semi-Thue and Conditional Semi-Thue Mauro Ferrari, Camillo Fiorentini and Ricardo Systems.	Oscar Rodriguez. A Gödel Modal Logic over
Systems Witnessed Crisp Models	
Systems Witnessed Crisp Models Reynald Affeldt, Alessandro Bruni, Cyril Cohen, Pierre Roux, Takafumi Saikawa. Renato Leme, Carlos Olarte, Elaine Pimentel Formalizing Concentration Inequalities in Rocq: Infrastructure and Automation Cube Revisited: Semantics without Worlds	and Marcelo Esteban Coniglio. The Modal
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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 Analysis Analysis Andrew M. Marshall, 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
14.30-10 (:)	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	