HIM talks:	date	time	Name	Topic	Optional URL etc.		
Tue	21.5.	15:00	James Davenport	*Proving an execution of an algorithm correct*	https://doi.org/10.1007/978-3-031-42753-4_17		
Wed	22.5.	15:00	Nicolas Thiéry	*Categories, axioms, constructions in SageMath: Modeling mathematics for fun and profit*			
Thu	23.5.	14:00	Michail Karatarakis	*Formalizing Deligne's theorem (Number theory)*			
Fri	24.5.	15:00	Andrea Kohlhase	*Eye Tracking for Math*			
Mo	27.5.	15:00	Reed Mullanix	*Cubical Type Theory for the Low-Dimensional Mathematician*			
Tue	28.5.	15:00	Emily Riehl	*Formalizing ∞-category theory in the RzK proof assistant*	https://emilyriehl.github.io/voneda/CPP-2024/		
Wed	29.5.	15:00	Tom de Jong	*Formalization in HoTT: equivalences, 3-for-2 and definitional equality*	https://tfbunchnott.wordpress.com/2023/12/08/a-practical-technique-for-proving-that-a-map-is-an-equivalence/		
Thu	30.5.	15:00	no talk	*Public Holiday (Fronleichnam = Corpus Christi)*			
Fri	31.5.	15:00	Claudio Sacerdoti Coen	*Indexing and Retrieval in a heterogeneous Formal Library*			
Mo	3.6.	15:00	Chris Lam	*Adventures in Correct-by-Construction Proof Engineering*			
Tue	4.6.	15:00	Harshit J Motwani	*Formal Verification and Synthesis of Polynomial Programs using Algebro-Geometry*	https://doi.org/10.1145/3586052		
Wed	5.6.	15:00	Juan Meleiro	*Theory-oriented mathematics*			
Thu	6.6.	15:00	Milly Maietti and Pietro Sabelli	*Peculiarities of the Minimalist Foundation for Formal Mathematics*			
Fri	7.6.	15:00	Cipriano Cioffo	*A categorical account of the setoid model*			
Mo	10.6.	11:00	Kevin Buzzard	*Formalizing Fermat I (informal lecture)*			
Mo	10.6.	15:00	Sina Hazratpour	*Report on Polynomial Functors Formalization*	https://github.com/sinhp/Poly/		
Tue	11.6.	11:00	Kevin Buzzard	*Formalizing Fermat II (informal lecture)*			
Tue	11.6.	15:00	Valeria de Paiva	*AI tools for Better Math*			
Wed	12.6.	11:00	Kevin Buzzard	*Formalizing Fermat III (informal lecture)*			
Wed	12.6.	15:00	Davide Trotta	*Doctrines for Formal Mathematics*			
Thu	13.6.	11:00	Kevin Buzzard	*Formalizing Fermat IV (informal lecture)*			
Thu	13.6.	15:00	Dagur Asgeirsson	*Condensed mathematics in Mathlib*			
Fr	14.6.	11:00	Kevin Buzzard	*Formalizing Fermat V (informal lecture)*			
Fr	14.6.	15:00	Sina Hazratpour	*Linear Algebra Game in Lean*	https://github.com/hhu-adam/Robo/tree/main		
	17. - 21. 6		**no PFM Seminar**	***Workshop on Formalization of Mathematics***			
Mo	17. 6,	9:00		*Welcome and Orga*			
	17. 6,	9:30	van Doorn	*Towards a formalized proof of Carleson's theorem*			
	17. 6,	10:10	Coffee break				
	17. 6,	10:40	Farmer	*An Alternative Approach to Formal Mathematics that Prioritizes Communication over Certification*			
	17. 6,	11:20	Benzmüller	*Comments on the formalisation and automation of foundational theories from the point of view of LogiKEy*			
	17. 6,	12:00	Lunch				
	17. 6,	13:30	Who am I	*All participants present their research/workshop interests in 2 min*			
	17. 6,	14:30	Workgroup 1	*A) Formalizing Carleson (basement), B) Math activities for the general public (plenary)*			
	17. 6,	16:30	Workgroup 2	*A) Boolos Curious Inference (fireplace) B) HoTT Lean (plenary)*			
		18:00	Get-together	*Pretzels and Beer in the Garden (weather permitting)*			
Tue	18.6.	9:00	Kevin Buzzard	*Capturing mathematical equality*			
	18.6.	9:40	Cyril Cohen	*Building Measure Theory using Hierarchy Builder*			
	18.6.	10:20	Coffee Break				
	18.6.	10:50	Lawrence Paulson	*Formalising Advanced Mathematics in Isabelle/HOL*			
	18.6.	11:30	Yves Bertot	*Reconciling Type theory with the use of a single type of numbers for mathematical education at introductory levels*			
	18.6.	12:10	Lunch				
	18.6.	14:00	Workgroup1	*A) Applications of Proof assistants in teaching (plenary), B) Formalizing Carleson (basement)*			
	18.6.	16:00	Cake Break				
	18.6.	16:30	Workgroup2	*A) Porting Hierarchy Builder (plenary), B) HoTT Lean (fireplace) C) Choosing (basement)*			
Wed	19.6.	9:00	Natarajan Shankar	*Beautiful Formalizations and Proofs*			
	19.6.	9:40	Jacques Carette	*Unavoidable Mathematics*			
	19.6.	10:20	Coffee Break				
	19.6.	10:50	Georges Gonthier	*Programming Mathematics: Tools and Challenges*			
	19.6.	11:30	Patrick Massot	*From informal to formal and back*			
	19.6.	12:10	Lunch				
	19.6.	14:00	Panel discussion	*How do we formalize (most of) mathematics?*	Panel discussion on Wednesday		
	19.6.	16:00	Cake Break				
	19.6.	16:30	Workgroup2	*A) How to expand the role of formal mathematics in mathematical practice (fireplace), B) Differences between proofs of programs and proofs in mathematics (plenary), C)Hierarchy builder (basement), D) HoTT in Lean (2. floor seminar room)*			
Thu	20.6.	9:00	Abdulaziz	*Formalising the Theory of Combinatorial Optimisation*			
	20.6.	9:40	Florian Rabe	*HOL+Dependent Types + Subtyping*			
	20.6.	10:20	Coffee Break				
	20.6.	10:50	Katja Bercic/Jure Taslak	*Lean-HoG: Incorporating a database of graphs into a proof assistant*			
	20.6.	11:30	Johan Commelin	*Condensed Type Theory*			
	20.6.	12:10	Lunch				
	20.6.	14:00	Workgroup1	*A) Polynomials in Lean (fireplace), B) Raising Academic recognition for Formalizations/Implementations (plenary), C) Hierarchy builder (basement), D) HoTT Lean (2. floor seminar)*			
	20.6.	16:00	Cake Break				
	20.6.	16:30	Workgroup2	A) Formal to informal and back (NLP, NLU, CNL, Autoformalization …) (basement) B) Publication norms for formalized math (plenary) C) Understanding practical differences between theorem prover type systems (fireplace)			
Fr	21.6.	9:00	Jeremy Avigad	*Verifying elliptic curve computations on blockchain*			
	21.6.	9:40	Rob Lewis	*Teaching Lean vs. teaching with Lean*			
	21.6.	10:20	Coffee Break				
	21.6.	10:50	Claudio Sacerdoti Coen	*A taste of ELPI*			
	21.6.	11:30	Wojciech Nawrocki	*Extending the Lean user interface with widgets (a tutorial)*			
	21.6.	12:10	Lunch	Lunch			
	21.6.	14:00	Workgroup1	*A) HoTT Lean (2nd floor seminar room) B) How to make formal logic more palatable to mathematics practitioners (plenary) C) Theory Builder (fireplace)*			
	21.6.	16:00	Cake Break	Cake Break			
	21.6.	16:30	Workgroup2	*A) Polynomials in Lean (fireplace)*			
Workgroup Proposals:			**Proposer**	***Working Title (description)***			
Coding	*	11	Steve Awodey	HoTT Lean (a project for HoTT formalizations in Lean) https://github.com/sinhp/cosmos_model_in_lean4	mo2	plenary	
Disc	1	13	Michael Kohlhase	Raising Academic recognition for Formalizations/Implementations	Thu1		
Disc	1	11	Bill Farmer	How to expand the role of formal mathematics in mathematical practice.	wed2		
Disc	1	5	Bill Farmer	How to make formal logic more palatable to mathematics practitioners	fri1		
Disc	1	20	Christine Paulin-Mohring	Differences between proofs of programs and proofs in mathematics - Do we need different tools ? should we care about the computational content of definition and proofs in mathematics ?	wed2		
Work on	1-100	17	Jeremy Avigad	Designing activities to introduce the general public to interactive theorem proving (for example, at MoMath)	mo1	plenary	
Disc/Ex	<=2	10	Mohammad Abdulaziz	Understanding practical differences between theorem prover type systems - Formalising simple case studies that highlight the differences	Thu2		
Coding	\inffy	12	Cyril Cohen	Porting Hierarchy Builder from Coq to another proof assistant (Lean?)	Tue2, Wed1, Thu1, Fri1		https://github.com/CohenCyril/mathlib4/tree/hb
Coding	\inffy+1	8	Floris van Doorn	Formalizing Carleson's theorem	mo1	basement	
Coding/Disc	<=2	5	Christoph Benzmüller	*How to automate Boolos Curious Inference (as an example for intelligent cut-introduction)?*	mo2	fireplace	
Coding	2	8	James Davenport	*Polynomial arithmetic in Lean*	thu1		
Disc	<=2	8	Angeliki Koutsoukou-Argyraki	*Choosing what mathematical areas/ theorems to formalise and how this could be approached, both as an individual choice and as a community choice: how to coordinate and decide on library expansion goals and strategies.*	tue2		
Disc/Demo	<=2	28	Patrick Massot	*Applications of Proof assistants in teaching*	Tue1		
Disc/Demo	<=2	16	Patrick Massot	*Formal to informal and back (NLP, NLU, CNL, Autoformalization …)*	Thu2		
Disc	1	22	Rob Lewis	*Publication norms for formalized math*	thu2		
Mo	24. 6.	15:00	Mario Carneiro	*Impromptu chat about HB in Lean*			
Tue	25. 6.	15:00	Mima Džamonja	*Calculating ordinal invariants - can you do better than a human ?*			

HIM talks:	date	time	Name	Topic	Optional URL etc.
Wed	26. 6.	15:00	Jeremy Avigad	*A dry run*	
Thu	27. 6.	15:00	Thomas Ammer	*Formalising and Verifying Algorithms for the Minimum Cost Flow Problem*	
Fr	28. 6.	15:00	Maximilian Doré	*Automating Reasoning in Cubical Type Theory*	
Mo	1.7.	15:00	Valeria de Paiva		
Tue	2.7.	15:00			
Wed	3.7.	15:00			
Thu	4.7.	15:00			
Fr	5.7.	15:00			
	6.-7. 7.			***Women in Formal Math Workshop***	
Sat	6.7.				
Sun	7.7.				
	8. - 12. 7.		**no PFM Seminar**	***Workshop Bridging between informal and formal***	
Mo	8. 7.	10:00		*Registration, Welcome and Organization*	
	8. 7.	10:40	Aarne Ranta	*Informath: Informalization of Formal Mathematics*	
	8. 7.	11:20	Dennis Müller?		
	8. 7.	12:00	Lunch		
	8. 7.	13:30	Who am I	*All participants present their research/workshop interests in 2 min*	
	8. 7.	14:30		Distributions of workgroups and talks.	
	8.7.	16:00			
	8. 7.	16:30	Workgroup 2		
	8. 7.	18:00	Get-together	Pretzels and Beer at the HIM Villa and (weather permitting) the gargen.	
Tue	9. 7.	9:00			
	9. 7.	9:40			
	9. 7.	10:20	Coffee Break		
	9. 7.	10:50			
	9. 7.	11:30			
	9. 7.	12:10	Lunch		
	9. 7.	14:00	Workgroup1		
	9. 7.	16:00	Cake Break		
	9. 7.	16:30	Workgroup2		
Wed	10. 7.	9:00			
	10. 7.	9:40			
	10. 7.	10:20	Coffee Break		
	10. 7.	10:50			
	10. 7.	11:30			
	10. 7.	12:10	Lunch		
	10. 7.	14:00	Workgroup1		
	10. 7.	16:00	Cake Break		
	10. 7.	16:30	Workgroup2		
Thu	11. 7.	9:00			
	11. 7.	9:40			
	11. 7.	10:20			
	11. 7.	10:50			
	11. 7.	11:30			
	11. 7.	12:10	Lunch		
	11. 7.	14:00	Workgroup1		
	11. 7.	16:00	Cake Break		
	11. 7.	16:30	Workgroup2		
Fr	12. 7.	9:00			
	12. 7.	9:40			
	12. 7.	10:20	Coffee Break		
	12. 7.	10:50			
	12. 7.	11:30			
	12. 7.	12:10	Lunch		
	12. 7.	14:00	Workgroup1		
	12. 7.	16:00	Cake Break		
	12. 7.	16:30	Workgroup2		
Workgroup Proposals:			**Proposer**	***Working Title (description)***	
Mo	15. 7.	15:00			
Tue	16. 7.	15:00			
Wed	17.7.	15:00			
Thu	18.7.	15:00			
Fr	19. 7.	15:00			
Mo	22. 7.	15:00			
Tue	23. 7.	15:00	Frédéric Blanqui	*Translating HOL-Light proofs to Coq*	https://github.com/deducteam/hol2dk
Wed	24. 7.	15:00	Jonathan Weinberger	*Directed univalence in simplicial type theory*	https://drive.google.com/file/d/1q7iGgkGJnRExRcNL7BisA0hFKYNZG9z4/view?usp=drive_link
Thu	25. 7.	15:00			
Fr	26. 7.	15:00			
	29. 7. - 2. 8.		**no PFM Seminar**	***Workshop Bridging between informal and formal***	
Mo	29. 7.	9:00			
	29. 7.	9:30			
	29. 7.	10:10	Coffee break		
	29. 7.	10:40			
	29. 7.	11:20			
	29. 7.	12:00	Lunch		
	29. 7.	13:30	Who am I		
	29. 7.	14:30	Workgroup 1		
	29. 7.	16:30	Workgroup 2		
	29. 7.	18:00	Get-together		
Tue	30. 7.	9:00			
	30. 7.	9:40			
	30. 7.	10:20	Coffee Break		
	30. 7.	10:50			
	30. 7.	11:30			
	30. 7.	12:10	Lunch		
	30. 7.	14:00	Workgroup1		
	30. 7.	16:00	Cake Break		
	30. 7.	16:30	Workgroup2		
Wed	31. 7.	9:00			
	31. 7.	9:40			
	31. 7.	10:20	Coffee Break		
	31. 7.	10:50			

e HIM talks:	date	time	Name	*Topic*	Optional URL etc.
	31. 7.	11:30			
	31. 7.	12:10	Lunch		
	31. 7.	14:00	Workgroup1		
	31. 7.	16:00	Cake Break		
	31. 7.	16:30	Workgroup2		
Thu	1. 8.	9:00			
	1. 8.	9:40			
	1. 8.	10:20			
	1. 8.	10:50			
	1. 8.	11:30			
	1. 8.	12:10	Lunch		
	1. 8.	14:00	Workgroup1		
	1. 8.	16:00	Cake Break		
	1. 8.	16:30	Workgroup2		
Fr	2. 8.	9:00			
	2. 8.	9:40			
	2. 8.	10:20	Coffee Break		
	2. 8.	10:50			
	2. 8.	11:30			
	2. 8.	12:10	Lunch		
	2. 8.	14:00	Workgroup1		
	2. 8.	16:00	Cake Break		
	2. 8.	16:30	Workgroup2		
Workgroup Proposals:			**Proposer**	***Working Title (description)***	
Mo	5. 8.	15:00			
Tue	6. 8.	15:00			
Wed	7. 8.	15:00			
Thu	8. 8.	15:00			
Fr	9. 8.	15:00			
Mo	12. 8.	15:00			
Tue	13. 8.	15:00			
Wed	14. 8.	15:00			
Thu	15. 8.	15:00			
Fr	16. 8.	15:00			