Workshop on Formal Proofs and Lean
(15 Apr 2024–26 Apr 2024)

List of Speakers

Name & Affiliation	Talk Title
Anjie Dong Peking University, China	*Student Presentation* An AI-based approach to improving interactive theorem proving environment
Ashvni Narayanan University of Sydney, Australia	The knotted pizza
Bhavik Mehta University of Cambridge, UK	Formalisation of Combinatorics
Bichang Lei & Yichang Tao Renmin University of China, China	*Student Presentation* Learning Mathematics with Lean
Bin Dong, Guoxiong Gao, Haocheng Ju Peking University, China	AI for Mathematics: Goals, Plans and Tools
Clarence Chew, Jingquan Chong, Mengzhou Sun, Yutong Wang National University of Singapore, Singapore	*Student Presentation* Towards the formalisation of Coxeter combinatorics
Filippo Nuccio Université Jean Monnet, France	Formalizing local fields in Lean
Haocheng Ju & Guoxiong Gao Peking University, China	*Student Presentation* Recent Progress on Mathlib4 Semantic Search
Ilya Sergey National University of Singapore, Singapore	Proving as Programming
Jiedong Jiang Peking University, China	Formalizing Ramification Groups in Lean
Kelin Xia Nanyang Technological University, Singapore	Mathematical AI for Molecular Sciences
Kevin Buzzard Imperial College London, UK	Colloquium Talk Why formalise mathematics? Talk 2 Formalising Fermat

Name & Affiliation	Talk Title
Qianxiao Li National University of Singapore, Singapore	Constructing custom thermodynamics using deep learning
Riccardo Brasca Université Paris Cite, France	<u>Mini Course</u> An introduction to the Lean proof assistant for mathematicians
Siddhartha Gadgil IISc India, India	Programs with Proofs and Meta-Programming in Lean
Vladimir Gladshtein National University of Singapore, Singapore	*Student Presentation* Small Scale Reflection for the Working Lean User
Zaiwen Wen Peking University, China	Mathematical Formalization for Applied Mathematics