



**CIPSH Chair DMRCP**  
**Diversity of Mathematical Research Cultures and Practices**  
Chair holder: Prof. Dr. Benedikt Löwe

*DMRCP Senior Fellows.* C. Antos-Kuby (Konstanz), H. De Cruz (St Louis MO), K. François (Brussels), C. Greiffenhagen (Hong Kong), G. Heinzmann (Nancy), M. Inglis (Loughborough), C. Jami (Paris), B. Larvor (Hatfield), U. Martin (Edinburgh & Oxford), H. Mihaljević (Berlin), E. Müller-Hill (Rostock), R. Ramanujam (Chennai), D. Schlimm (Montréal QC), H. K. Sørensen (Copenhagen), B. Van Kerkhove (Brussels).

## **DMRCP Newsletter # 6**

24 July 2024

### **Seventh DMRCP Seminar Meeting.**

The seventh DMRCP Seminar Meeting was held on 10 June 2024 with presentations by Line Edslev Andersen F and Zhouwanyue (Nata) Yang F. Sixteen participants attended the meeting.

Line Edslev Andersen F spoke about her new research project aimed at establishing a proper Social Epistemology of Mathematics. The idea is that both social epistemology informs the philosophy of mathematics and case studies in the mathematical community inform social epistemological debates.

Zhouwanyue (Nata) Yang F presented her doctoral project on pluralism of mathematical understanding. Instead of evaluating the rationality of different mathematicians, she proposes a pluralistic account on mathematical understanding that relativizes to the agent.

### **Activities.**

The *Annals of Mathematics and Philosophy* host a special issue *On proof*, addressing “some old challenges and new opportunities”. This includes, e.g., the question of computer-assisted proofs and the relation between peer-reviewed publications and preprints. Submissions of DMRCP members are welcome. You can find the call here: <https://mxphi.com/event/special-issue-on-proof/>.

DMRCP provides a two-part training unit on empirical methods in the philosophy of mathematics at the *ESPM Summerschool*, held in Vienna from 9 to 13 September 2024. Matthew Inglis SF and Deborah Kant F will give tutorials on the application of quantitative and qualitative methods to study mathematical practices.

From 8 January 2025 to 2 May 2025, the Isaac Newton Institute for Mathematical Sciences will host a programme entitled *Modern History of Mathematics*. At the heart of the programme is a theme of “diversity of people, context and content” and it is expected that a number of topics

central to DMRCF will be discussed. Interested DMRCF Fellows should contact Ursula Martin SF. More information can be found here: <https://www.newton.ac.uk/event/mhm/>.

In the Spring of 2025, Valeria De Paiva (Topos Institute) and Michael Barany F will be hosting a series of hybrid/online discussions at Edinburgh's International Centre for Mathematical Sciences on the theme of *BRICS Mathematics*, i.e., mathematics in modern Brazil, Russia, India, China, and South Africa. This is funded by the ICMS's Mathematics for Humanity programme. For more information, please contact Michael Barany F.

### Presentation of new Fellows.

*Ben Davies* is a lecturer in the School of Education at the University of Southampton. He grew up in New Zealand and was a student of mathematics and education at the University of Auckland. He has recently worked in the Departments of Mathematics at University College London and West Virginia University. He has a wide range of research interests across education, social science, and experimental philosophy. The majority of his research focuses is on assessment methodology, comparative judgement, and (the nature of) mathematical proof. Recent work strands include research on beliefs about and assessment of proof comprehension in tertiary mathematics, the role of computer-aided assessment (using STACK) for secondary and tertiary settings, and the role of generative AI in (mathematics) education settings.



*Silvia De Toffoli* is a researcher in Logic and Philosophy of Science at the School for Advanced Studies IUSS Pavia. De Toffoli has earned two doctoral degrees: one in mathematics at the Technical University of Berlin (2013) and one in philosophy at Stanford University (2019). Before becoming a researcher at IUSS, she was a postdoctoral fellow in the philosophy department at Princeton University (2019–2022) and an assistant professor in philosophy and Wallenberg Academy Fellow at Linköping University, Sweden (2022). Her specialization is in the philosophy of mathematics and epistemology, focusing primarily on the philosophy of mathematical practice. She has written extensively on the epistemological roles of diagrams in contemporary mathematics and has articulated a fallible account of mathematical justification.



*Susannah Glickman's* research and teaching focus on the history and political economy of computation and information through the transformations in global American science that occurred at the end of the Cold War. Her current book project examines the infrastructures which make ever-improving semiconductors and quantum technologies possible historically, with particular attention to how ideology and other kinds of narratives get translated into policy and granular practices, and how reciprocally those material practices get translated back into ideology. She has a background in mathematics and anthropology and works between the fields of science and technology studies and history, mixing archival and oral history methods. Specifically, she is broadly interested in how institutions deal with the category of the future and the origins of the category "tech."



In this newsletter, we mark the Fellows and Senior Fellows of DMRCF with the postnominal letters 'F' and 'SF', respectively. If you have any information to be included in the next newsletter, please e-mail Deborah Kant at [dmrpf.scientificcoordinator@cipsh.international](mailto:dmrpf.scientificcoordinator@cipsh.international).