

Abstract:

As mathematics becomes more and more digital and algorithms, proof assistants, and digital databases become more and more involved in mathematical research, the question arises how to handle this mathematical research data that accumulates alongside a publication; how it can be stored, made accessible, and reused. How can a certain quality be ensured?

These are not easy questions, since mathematical research data is very diverse and infrastructure is just developing. But there are many great ideas and visions in the community that will be highlighted in this Minisymposium. Next generation peer review, the Mathematical Knowledge Graph, repositories for mathematical research data, benchmark services, ... to name a few.

Speakers will share their experience with already existing solutions and their visions and plans for how a well-developed integrated infrastructure can further facilitate mathematical research.

A focus will be on the Mathematical Research Data Initiative (MaRDI), the NFDI consortium of the mathematical community, that will develop a portal for mathematical research data with many services in the next years.