FERM@T Fundamental Education Research in Mathematics at Twente

Tracy Craig, EEMCS Networking Day 2024

What is FERMAT?

- FERMAT is a new (2024) research group in the Department of Applied Mathematics, focussed on research in mathematics education. The group's aims are threefold
 - carry out research on educational issues of importance to teachers in the department.
 - ▶ have impact on the educational environment of the department.
 - help form a hub for the community of scholarly teachers of mathematics.

Who is in FERMAT?

- ► Tracy Craig (UHD)
- ► Fulya Kula (UD)
- ► Lerna Pehlivan
- ▶ (beginning 2025) Lavinia Lanting
- We work on projects with colleagues within the maths department and outside it.

Projects

- Self-regulation in vector calculus (Tracy + team)
- Double integrals: an APOS analysis (Tracy + Lerna)
- The mathematics bridging course (Fulya + team)
- Visualisation in multivariable calculus (Lerna)
- Mathematics and Didactics Synthesis proposed course; winner BIG 2024 (Tracy + Fulya)
- (beginning 2025) Automated and alternative assessment in mathematics (Lavinia)

The mathematics education reading group

- Active since 2019
- Currently meeting monthly
- Readings drawn from a selection of mathematics education journals
- Membership: Mathematics educators in AM, ELAN and ATLAS

Collaborations welcome

► EEMCS - how can we work together?