Proving Agency in Mathematical Practice: Practical, Social, and Mental Aspects

Fact Sheet

Project Information

ProvingAgency
Grant agreement ID: 101063894

DOI
10.3030/101063894

Funded under
Marie Skłodowska-Curie Actions (MSCA)

Start date
1 June 2023

End date
31 May 2026

Total cost
€ 0,00

EU contribution
€ 308 746,56

Coordinated by
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS France

Project description

A closer look at the capacities needed by those who ‘prove’ the truths of the universe

Proofs are central to mathematics and physics, helping us to explain the way the universe works. These rigorous logical arguments unequivocally demonstrate the truth of a given proposition or theorem. With the support of the Marie Skłodowska-Curie Actions programme, the ProvingAgency project will take an unconventional look at proofs – focusing on the capacities needed by the ‘provers’ to prove their proposed truths. The practical aspects relate to the practical knowledge required. The social aspects come into play when groups work together to prove theorems.
Finally, the mental aspects are concerned with the mental dimension of the activity of proving, including the reliance on mathematical artefacts produced by humans.

Fields of science

humanities → philosophy, ethics and religion → philosophy → epistemology
natural sciences → mathematics

Keywords

Philosophy of mathematical practice  Mathematical proof  Mathematical reasoning
Mathematical knowledge  Agency in mathematics  Collaborative proving
Extended cognition  Extended knowledge

Programme(s)

HORIZON.1.2 - Marie Skłodowska-Curie Actions (MSCA)  MAIN PROGRAMME

Topic(s)

HORIZON-MSCA-2021-PF-01-01 - MSCA Postdoctoral Fellowships 2021

Call for proposal

HORIZON-MSCA-2021-PF-01

See other projects for this call

Funding Scheme

MSCA-PF - MSCA-PF

Coordinator
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS

Net EU contribution
€ 308 746,56

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Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Other funding
€ 0,00

Partners (1)

EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH

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€ 0,00

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Other funding
€ 0,00