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

Fact Sheet

Project Information

ProvingAgency

Grant agreement ID: 101063894

Funded under
Marie Skłodowska-Curie Actions (MSCA)

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10.3030/101063894

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

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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
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