Random Walks on Groups, Commutative and Non-commutative Dynamics

Fact Sheet

Project Information

BoundaryTheory

Grant agreement ID: 101078193

Funded under
European Research Council (ERC)

DOI
10.3030/101078193

Total cost
€ 1 499 750,00

EU contribution
€ 1 499 750,00

Start date
1 May 2023

End date
30 April 2028

Coordinated by
BEN-GURION UNIVERSITY OF THE NEGEV

Israel

Project description

A closer look at the theory of random walks

In mathematics, a random walk is a process describing a path lined with a series of random steps. The EU-funded BoundaryTheory project will gain a deeper understanding of group properties using the theory of random walks. The project will also illuminate the connections between this theory and the rigidity phenomenon. The main mathematical fields in this research plan are measurable and topological group actions (ergodic theory and topological dynamics) and their interactions with C*-algebras and von Neumann algebras. The project will also build the theory of the automorphism group of Markov chains. It will create new techniques for studying the Furstenberg-Poisson boundary and its connections with operator algebras.
Programme(s)

**HORIZON.1.1 - European Research Council (ERC)**

Topic(s)

**ERC-2022-STG - ERC STARTING GRANTS**

Call for proposal

**ERC-2022-STG**

See other projects for this call

Funding Scheme

**ERC - Support for frontier research (ERC)**

Coordinator

**BEN-GURION UNIVERSITY OF THE NEGEV**

Net EU contribution

€ 1 499 750,00

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Activity type

Higher or Secondary Education Establishments

Links
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European Union, 2023