

SCOPE

The scope of expert panel W&T1 includes fundamental research in pure mathematics, applied mathematics and statistics. The panel welcomes proposals in all subfields of mathematics. The proposed research should contribute to the development of new mathematical and/or statistical techniques, theories, concepts or models, or the mathematical solution of challenging problems. Also application-oriented proposals are welcomed provided the project includes fundamental advances in mathematical and/or statistical sciences.

More specifically, the scope includes the following topics:

TOPICS

- » Logic and foundations
- » Algebra
- » Number theory
- » Algebraic and complex geometry
- » Geometry, global analysis and lie theory
- » Topology
- » Analysis
- » Probability and uncertainty
- » Operator algebras and functional analysis
- » Partial differential equations
- » ODE and dynamical systems
- » Combinatorics and discrete mathematics
- » Cryptography and coding
- » Mathematical aspects of computer science
- » Mathematical physics
- » Numerical analysis
- » Computational mathematics, statistics and scientific computing
- » Financial mathematics
- » Biomathematics
- » Mathematics with applications to sciences and engineering
- » Mathematics with applications to industry and society
- » Mathematical epidemiology
- » Control theory, optimisation and operations research
- » Mathematics of decision making and game theory
- » Mathematical statistics
- » Biostatistics
- » Statistical methodology in epidemiology and public health
- » Statistical methodology in social, behavioural and educational sciences
- » Statistics and mathematics for data science
- » Industrial statistics
- » Design of experiments and sampling techniques
- » Official statistics