



Berlin Mathematical School (BMS)

An application joint with Technische Universität Berlin und Freie Universität Berlin

Abstract of the Draft Proposal for the Excellence Initiative 2006

Mathematics of the World

The three Berlin universities are brought together in the "Berlin Mathematical School" (BMS). The school will offer outstanding students from around the world the combined potential of internationally accomplished mathematics departments. One program of courses leads from a bachelor's degree or equivalent to a qualifying exam and the right of admission to a doctoral program in two years.

Four Leibniz Prize recipients are counted among the school's internationally renowned professors. The doctoral program leads to a doctoral degree from one of the Berlin graduate schools of mathematics within two to three years.

The BMS builds upon Berlin's strong networks of research and cooperation in mathematics. This enables BMS students to work at projects such as the DFG research center MATHEON "Mathematics for Key Technologies" or Humboldt-Universität's collaborative research center 647 "Space - Time - Matter."

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Fields of Study

- Mathematics

Existing Research Associations

Mathematical Projects:

- Research Center 86 "Mathematics for Key Technologies: Modelling, Simulation and Optimization of Real-world Processes"
- International Research Training Group 870 "Arithmetic and Geometry"
- Research Training Group 1128 "Analysis, Numerics and Optimization of Multiphase Problems"
- Research Training Group 588 "Combinatorics, Geometry, and Computation"
- Marie Curie RTN ENIGMA
- ESF program EAGER
- ESF Program AMaMeF
- ESF Program MISGAM
- ESF Program RDSSES
- Research Unit 413 "Algorithms, Structure, Randomness"
- Research Unit 565 "Polyhedral Surfaces"

Interdisciplinary Projects:

- Collaborative Research Center 647 "Space, Time, Matter"
- Collaborative Research Center 555 "Complex Non-linear Processes"
- Collaborative Research Center 450 "Analysis and Control of Ultrafast Photo-induced Reactions"
- Collaborative Research Center 557 "Control of Complex Shear Flows"
- Collaborative Research Center 649 "Economic Risk"
- Research Training Group 621 "Stochastic Modelling and Quantitative Analysis of Complex Systems in Engineering"
- International Max Planck Research School on Computational Biology and Scientific Computing
- International Max Planck Research School on Geometric Analysis, Gravitation and String Theory

Further Information on this Project

<http://www.exzellenz.hu-berlin.de/>