

Application Deadlines

The first round application deadline of **1 December** is for

- Phase I applicants requiring admission with scholarship
- Phase II applicants holding a master's degree by 31 March who want to start before October.

The second round application deadline of **1 April** is for

- Phase I applicants requiring admission only
- Phase II applicants holding a master's degree by 30 September who want to start in October.

Contact

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Advantages

In addition to the English-language course program covering a broad range of research topics in pure and applied mathematics, the BMS has much to offer its students:

- Scholarships for Phase I and Phase II
- Funding for conferences
- BMS summer schools
- Mentoring program
- Soft-skills seminars
- Special funding for students with children

BMS students have access to all facilities at the three universities. The BMS lounges at FU, HU and TU serve as central meeting places, not only for academic purposes but also for social activities. Each semester, BMS students organize social events like cooking, bike trips, or canoeing.

Diversity

The primary goal of the BMS is academic excellence in mathematics. It also actively pursues the goals of internationality, gender equality and diversity. We ensure a working environment that is accepting, liberal, and supportive for our students, faculty, and staff. The BMS is dedicated to making education available to all, regardless of disability, ethnic background, gender, religion or sexual orientation.



Berlin Mathematical School

BMS



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Berlin Mathematical School

The Berlin Mathematical School is a joint graduate school in mathematics at the three Berlin universities: Freie Universität (FU), Humboldt-Universität (HU) and Technische Universität (TU). Since 2019, the BMS has been the graduate school in the Cluster of Excellence **MATH+**, which is funded by the Excellence Strategy.



Research Training Areas

The Berlin Mathematical School covers a very broad spectrum of mathematics. With over 100 professors on its faculty, there is active research in many fields ranging – in the traditional classification – from “pure” to “applied” mathematics. The BMS, however, prefers not to make this distinction; instead, the mathematical strengths of the BMS are grouped into eight areas:

1. Differential geometry, global analysis, and mathematical physics
2. Algebraic and arithmetic geometry, number theory
3. Stochastics and mathematical finance
4. Discrete mathematics and optimization
5. Geometry, topology, and visualization
6. Numerical analysis and scientific computing
7. Applied analysis and differential equations
8. Mathematics of data science

BMS PhD Program

The BMS PhD program is divided into two phases: Phase I is a graduate course program designed to prepare students for the research that they will conduct in Phase II for their doctoral dissertations.

Phase I

Students who have finished their bachelor’s degree are eligible to apply for Phase I. Graduate courses are offered in English in a schedule coordinated over all three universities. Over the course of three to four semesters, students have the opportunity to gain the breadth and depth of the mathematical knowledge required for high-level research. Students progress to Phase II by passing the BMS Qualifying Exam. Each Phase I student is assigned a Phase I advisor/mentor from the BMS faculty.

Phase II

Students who have completed a master’s degree are eligible to apply directly to Phase II. BMS doctoral candidates are expected to complete their dissertation within three years of starting Phase II, and should take advantage of the many opportunities offered by Berlin’s mathematics research environment. In addition to their research, all doctoral students typically take one BMS Advanced Course each semester in Phase II; these are courses which explore various areas of current research. In addition to the PhD supervisor, all Phase II students have a mentor from the BMS faculty.



MATH+ Friday Colloquia

Held every two weeks during the semester, the MATH+ Friday Colloquia are aimed at a broad audience explicitly including students. The talks give an overview of large-scale connections and insights into mathematics as a whole. The distinguished international guest speakers are selected not only for the significance of their mathematical work, but also for their engaging presentation style and influence in the global mathematics community.

Each semester, the BMS designates one of the MATH+ Friday Colloquia as the Sonia Kovalevskaya Colloquium. This lecture features female mathematicians who are invited to share their experiences as women in the field of mathematics. The “What is ...?” Seminar is a weekly student-run seminar usually held before the MATH+ Friday Colloquium. It aims to complement the topic of the Friday lecture.