

End-of-year wishes, review of 2023 and outlook for 2024

Dear employees and students of the Department of Mathematics,

another year is (almost) behind us: once again, the year turned out differently than we had imagined at the start of the year.

The President of TU Dortmund University, Prof. Dr. Manfred Bayer, has already addressed the "big issues" of the year in his greeting at the turn of the year.

We would like to take another look with you at the department level: We learned and tried out many new things in 2023, we had to adapt to new conditions and new ideas again and again. We managed to do this with the combined efforts of all groups in the department.

The dean's office would like to thank everyone involved!

We have "managed" studies, teaching and examinations, research, administration, committee work and also the integration of new students and new employees together.

We saw each other on campus, but we were also able to continue taking advantage of digital meetings. We are already looking forward to our next meetings in the New Year!

The teaching staff - from the professors to the student assistants - have continued to use digital techniques and tools - and also increasingly the blackboard and chalk - and have offered very good teaching with great commitment - we expected nothing less ... The evaluation of the courses is currently underway. We are continuing to evaluate in digital form, as the feedback is easier and quicker to obtain.

Surely we all need a breather now. Let's use the "company vacations" to relax and switch off!

Before that, we would like to take a brief look back at the year 2023 at the Department of Mathematics and give a preview at one point or another.

A few days ago, on December 18, 2023, the TU Dortmund University's **Annual Academic Celebration** took place. As always, best of the year prizes (master's degrees) and dissertation prizes were awarded for all departments.

<https://www.tu-dortmund.de/detail/akademische-jahresfeier-richtet-blick-auf-frieden-und-freiheit-38001/>



Photos: Roland Baege @TU Dortmund

We are particularly pleased with Jan Nagel and his team for the TU Dortmund teaching award in category 1 ("large courses", $n > 60$): the lecture "Stochastics I" in the summer semester 2023 was rated very well by the students and later also nominated for the TU award. Congratulations!

Start of studies in 2023

In September, the preliminary mathematics courses were again largely held in person. Many new students were already on site and got to know each other, the work at the university and their new life as students.

We know that our student bodies have once again succeeded in providing good support and guidance to new students during their first steps at university this year with the orientation phases and "all around". We hope that everyone has settled in well by now.

Now we have all - and especially the "first semester students" - earned a semester break. The courses will start again on January 08, 2024.

Preview: From **January 19 to 21, 2024**, the learning journey for joint preparation for the first university exams (Analysis I, Linear Algebra I, Arithmetic and its Didactics I) will take place.

<https://fsmath.de/index.php?hn=3&bn=9&bsn=9>

News from your studies and the campus

All degree programs are reviewed every few years as part of accreditation procedures and revised (more or less extensively) if necessary. The **teacher training programs were reaccredited** for the winter semester 2023/2024: the now tried-and-tested Bachelor's and Master's degree programs will be continued. There were a few minor adjustments and consistently positive feedback from the external peers, who act as "critical friends" on our twelve teacher training courses (6 times bachelor's, 6 times master's | GS, SPGS, SPHR, HR, BK, GY: from elementary school to high school - Grundschule, Sonderpädagogische Förderung (Lernbereich Mathematische Grundbildung, Unterrichtsfach Mathematik), Haupt-/Realschule, Berufskolleg, Gymnasium).

<https://www.mathematik.tu-dortmund.de/fakultaet/studium-lehre/uebersicht-ueber-die-angebotenen-studiengaenge/lehramtsstudiengaenge-der-fakultaet-fuer-mathematik>

International students are the target group of our **new English-language degree program "Industrial Mathematics"** (in the Master's degree program in Technomathematics); this program was developed at the beginning of the year and started with the first students in October 2023.

https://studieren.mathematik.tu-dortmund.de/?page_id=1018

We are currently working on the next innovations: From 2024, it will also be possible to start the **Bachelor's degree programs in Mathematics, Technomathematics as well as Mathematics and Economics** in the summer semester. The order of the modules will be different to when the course starts in the winter semester; it will not be a double program, but a "staggered program" with the doubling of Linear Algebra I/II. The details are still being worked out; the necessary changes to the Bachelor's examination regulations (→ *The program can be started in winter and summer.*) were decided at the December meeting of the Department Council of Mathematics..

<https://www.mathematik.tu-dortmund.de/sites/nachrichten-aus-dem-dekanat/fakultaetsrat-mathematik>

<https://www.mathematik.tu-dortmund.de/sites/nachrichten-aus-dem-dekanat/download/Weiterentwicklung-Fachstudium-Mathematik-2024-Aenderungsordnungen.pdf>



Photo: Jürgen Huhn @TU Dortmund

It won't be visible like this for much longer ...

From the east side of the mathematics building (see above, with Christmas tree lighting) we can not only look out over the stadium, but also have (had) the best view of the **university library**.

Since August 2023, the UB has been located on **Sebrathweg** (on the other side of the Technopark); the building on the other side of the Mensa bridge has already been vacated and will be demolished from the beginning of 2024 to make room for the **new building**.

<https://ub.tu-dortmund.de/die-ub/aktuelles/detail/neubau-bibliothek-30621/>

Even more construction sites: Fire protection modernization

From November 2023 until probably the end of September 2024, fire protection modernization will take place in the mathematics building: Gradually, all **passages between the stairwell and the corridor** will be redone (new plaster, new doors, ...); at the same time, the toilets will be spruced up (new paint, ...).

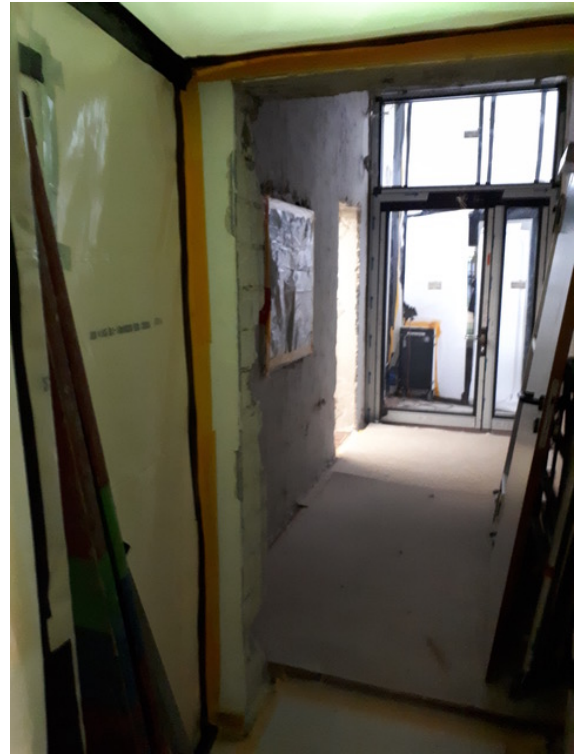
The pilot construction site has been on the 5th floor north since the beginning of November 2023 - the processes are being rehearsed here and experience is being gained before gradually continuing on all other floors from January 2024 - approx. 2-3 construction sites at a time, but in such a way that each floor is still accessible - but then as a dead end ...

The 5th floor is currently only accessible from the south side and the men have to visit the toilets on other floors. In January 2024, this will affect the ladies on the 5th floor and the men on the 10th floor.

Right: a small view of the work lock (5th floor north), end of November 2023

Photo: Magdalena Thöne

<http://www.mathematik.tu-dortmund.de/sites/nachrichten-aus-dem-dekanat>



14th stair run at the 37th campus run on May 24, 2023

Speaking of the stairwell ...

The Math tower run also took place again as part of the campus run: 220 steps in the north stairwell were once again conquered in record time - and some of the top places were once again taken by the Department of Mathematics. Many members of the department were also involved in the organization.

<https://www.mathematik.tu-dortmund.de/fakultaet/fakultaet/aktuelles/meldungen/detail/primary=Treppenlauf14-2023-04-14>

New lecture series: Math! And then?

The Alumni Club "Friends of the Department" and the Dean's Office have launched a new series of lectures to present mathematics careers and employers from the region with concrete examples.

The title "**Math! And then?**" is a continuation of the lecture series "*Abi! And then?*" for prospective students; this series addresses the next stage:

- What comes after graduation
- What do mathematicians, technomathematicians, graduates of mathematics and economics, ... do later in their careers?
- Where do they work?
- Which companies need and are looking for mathematicians?
- Which companies in the region have exciting tasks and fields of activity for mathematicians, technomathematicians and graduates of mathematics and economics?

In June and July, graduates who now work at Signal Iduna Versicherung and ISD Software und Systeme GmbH were guests at the department.

The next two lectures will take place in **January 2024**; further plans are already underway for the summer semester 2024.

<https://www.mathematik.tu-dortmund.de/fakultaet/fakultaet/aktuelles/meldungen/detail/primary=Mathe-und-dann-2023-05-31>

Annual celebration / graduation ceremony on April 21, 2023

Further live reports from (first) professional practice were given in April at the annual and graduation ceremony, which once again took place in the Audimax. Many graduations from the past academic year were celebrated - this time again with a small social event afterwards.

In addition, the **Frommknecht prizes** (for final theses in the field of insurance mathematics) were awarded; prizes from the Corona period were "celebrated" afterwards.

<https://www.mathematik.tu-dortmund.de/fakultaet/fakultaet/aktuelles/meldungen/detail/primary=Frommknechtpreis-2023-10-11>

As always, the **Teaching Award of the Department of Mathematics** was also presented, this time for the academic year 2021/2022. The announcement took place in December 2022; the celebration was held in April.

<https://www.mathematik.tu-dortmund.de/fakultaet/studium-lehre/services-themenseiten/lehrpreis-der-fakultaet-fuer-mathematik#lehrpreis-2022>



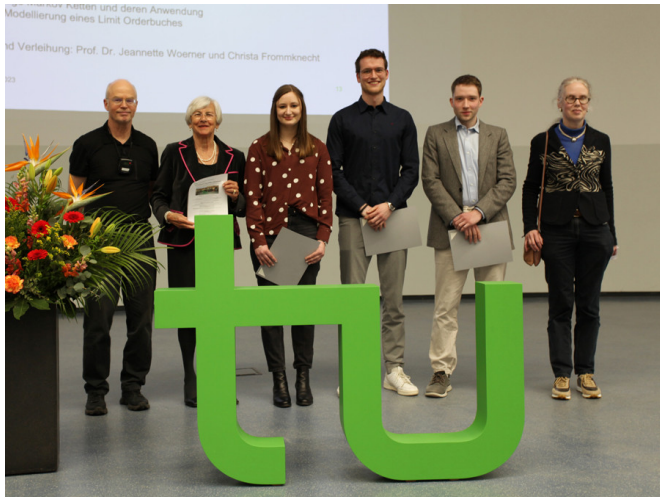
Bachelor's and Master's degrees for teachers in Mathematics / Mathematical Basic Education



Bachelor's and Master's degrees in Mathematics, Technomathematics and Mathematics & Economics



Doctorates in Mathematics (Dr. rer. nat)



Frommknecht prizes 2019 to 2022

Teaching Award of the Department 2022: Jan Nagel



Greetings from the President



Greetings from the student bodies

<https://www.mathematik.tu-dortmund.de/fakultaet/fakultaet/aktuelles/veranstaltungen/jahresfeier> Photos: Martin Scheer

Preview: We are planning the next annual celebration and graduation ceremony on **April 26, 2024** (Friday).

Internships for school students

Two internships were offered in January 2023 and June 2023 to give future students an insight into the various facets of mathematics at the university. Once again, we would like to thank all those involved from the department.

<https://www.mathematik.tu-dortmund.de/fakultaet/lehre/services-themenseiten/schulpraktikum>

Preview: The next internship will take place from **January 22 to February 02, 2024**.

Summer parties

There was another summer party at TU Dortmund University (June 29, 2023); the department's summer party took place on July 12, 2023 - with "table football" (with real players), chilled drinks, barbecue food and lots of interesting conversations - and with mosquito bites ... (but without rain). The crowd was bigger than expected, so more drinks and sausages etc. had to be bought in between ...

<https://www.tu-dortmund.de/landingpages/sommerfest/>

<https://www.mathematik.tu-dortmund.de/fakultaet/fakultaet/aktuelles/meldungen/detail/primary=Sommerfeier-2023-05-31>

Preview: The TU Summer Party 2023 is planned for **June 27, 2024**. The date for the Department's summer party has not yet been set - a Wednesday in one of the last weeks of lectures has always been a good choice ... The lecture period runs until July 19, 2024, so there are several options (which can also be coordinated with EURO2024 ...)

<https://www.uefa.com/euro2024/event-guide/dortmund/>

Anniversaries and celebratory colloquia

In autumn 2023, there were two small scientific events that also honored two birthday children.

Prof. em. Dr. Eberhard Becker celebrated his 80th birthday in July. On **October 26/27, 2023**, there was a two-day colloquium "*Quadratic Forms and Real Algebra*" with many guests from Germany and abroad.

In November 2023, Prof. em. Dr. Manfred Reimer celebrated his 90th birthday. The department organized a celebratory colloquium on **November 27, 2023**; the keynote speaker was Prof. Dr. Edward B. Saff (Vanderbilt University, USA).



Photo: Katharina Suttmeier

<https://www.mathematik.tu-dortmund.de/fakultaet/fakultaet/aktuelles/meldungen/detail/primary=Geburtstagskolloquien-2023-10-11>

In addition to the events that can be "tied" to dates, there were many other events and successes last year: exams passed and degrees completed, publications, prizes, newly acquired and extended third-party funded projects, new colleagues ...

You can also find some of it on our homepage.

<https://www.mathematik.tu-dortmund.de>

New web pages: It is not really noticeable yet - the website of the department has been renewed ...

In the first step, the old content was reproduced with new technology (Typo3), whereby a number of links have changed.

We have planned the content and visual redesign for the new year 2024 ...

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Mathematik

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FAKULTÄT

Willkommen auf den Webseiten der Fakultät für Mathematik!



TU Dortmund: Mathematik-Gebäude

INFO

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The "Who's who" of the department can be found in the list of people:

<https://www.mathematik.tu-dortmund.de/fakultaet/fakultaet/personen/az-gruppiert>

The calendar for 2024 also already has some entries:

https://www.mathematik.tu-dortmund.de/fakultaet/fakultaet/aktuelles/veranstaltungen/list/class=*,year=2024

You can also find the student bodies and the alumni club online:

<https://fsmath.de>

<https://fs-wima.tu-dortmund.de>

<https://www.freunde.mathematik.tu-dortmund.de>

The department has its own **Instagram channel** since summer 2022, which we use to draw the attention of prospective students to our degree programs, among other things.

We will continue to work on this next year ...

<https://www.instagram.com/mathematik.tudortmund/>

Just have a look ...

So much for a brief look back at 2023 and a big thank you for being there!

First of all, we wish you and all of us a peaceful winter break.

We look forward to working with you next year.

Stay healthy!

Best regards from the entire dean's office

Magdalena Thöne, assistant

Stefan Turek, dean