

## hcm NEWS 2/2019



## HAUSDORFF SPECIALS

## How private households can stall economic growth

Press release of the University of Bonn



Private households play a significant role in how quickly the economy recovers from a setback. Using a complex theoretical model, economist Prof. Dr. Christian Bayer from the University of Bonn and his team demonstrated that growing income uncertainty among private households can lead to an economic downturn. Using the model one can also be used to determine different courses of action for the government to take and predict their consequences for the economy: Government investments can stabilize the economy similar to interest rate cuts, having more favorable distributional effects. The study has now been published in the journal “Econometrica”. You can find the whole press release [here](#).



## Excellent research – Worldwide exchange between mathematicians

On February 27, the “General-Anzeiger” published an article on the Hausdorff Center in a series on the six Clusters of Excellence at the University of Bonn. They emphasized the internationality of our cluster and the promotion of young researchers in the BIGS and HIM. You can read the whole article [here](#).



## Report on the “Deutschlandfunk”

In March, an interview with the mathematics student from Bonn Fabien Nießen was broadcast on the “Deutschlandfunk”. Mathematics plays a major role in his life even besides his studies: He is involved in the organization of the Mathematical Olympiad, he is a member of the mathematics student community and is a part of the school team at the HCM. Follow this [link](#) to find the whole interview.

## HAUSDORFF PEOPLE

## Farewell to Michael Meier

At the end of February the longtime Chief Administrator of the HCM, Michael Meier, had his last regular day at work. Many long-standing companions of the DGF and the Humboldt Foundation, as well as former and current colleagues at the HCM and other institutes, came to his farewell party. As a representative of the university the rector Michael Hoch himself came which emphasized the high regard in which Michael Meier is held, even outside of the mathematical community of Bonn. In several personal speeches, much appreciation was shown for his accomplishments and the speakers reminisced about shared experiences throughout the past 40 years of his career. Micheal Meier became the Chief Administrator of the HCM a few months after the foundation of the cluster. With the help of his team, he played a substantial role in shaping the Hausdorff Center for more than a decade. Michael Meier and the board of the HCM initiated and



**Jonas Wahl** is a new postdoc in the group of Alexey Bufetov. After having studied mathematics at the Saarland University he earned his Ph.D. in 2018 at the KU Leuven under the supervision of Stefaan Vaes and with his doctoral thesis on “Nonsingular Bernoulli actions and quantum symmetries”. His research deals with probabilistic and representation-theoretic properties of compact quantum groups and their von Neumann algebra. He also studies actions of discrete groups on probability spaces where the measure is left invariant.



**Fan Bai** has been working as a postdoctoral research fellow at Hausdorff Center for Mathematics since January 2019. He is interested in solving problems in bioinformatics and mathematical biology. Previously, he obtained his Ph.D. in Applied Mathematics from the University of British Columbia in Canada, and was trained as a bio-mathematician in Texas and Tennessee.



Since mid-march, **Claudia Reske** has been supporting Jan Hasenauer and his team at the IRU Mathematics and Life Sciences with development and arising administrative tasks.



# HAUSDORFF PEOPLE

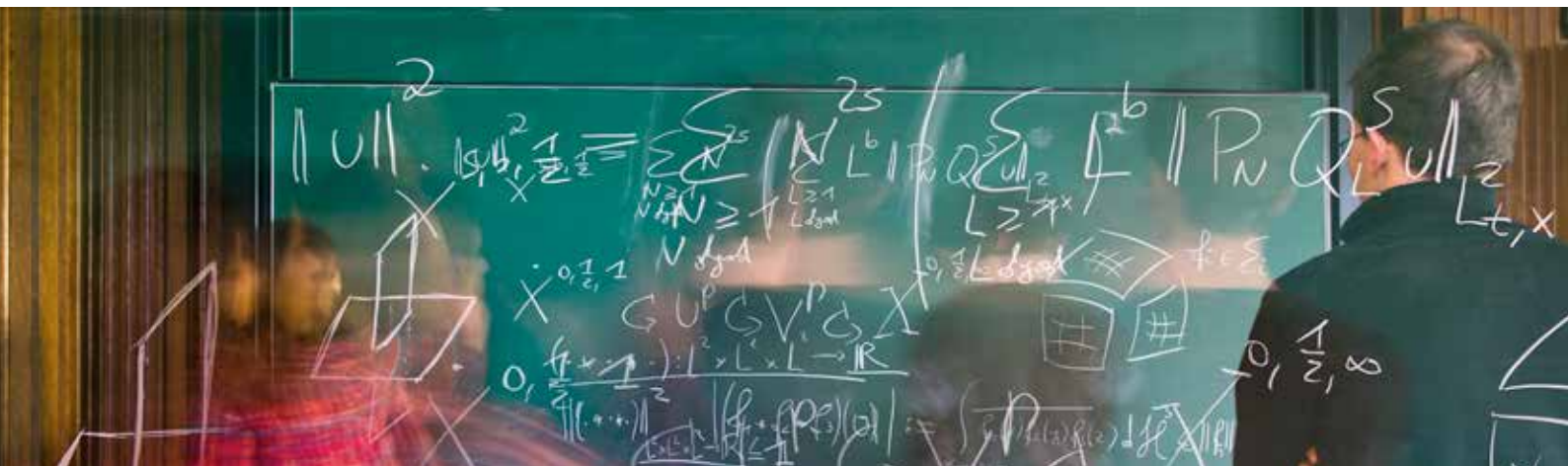


further developed projects like the Bonn Junior Fellows, BIGS and the Hausdorff School, which now act as a role model for the entire university. With the help of his dedication and persistence, the cluster managed to enter its third funding period. Promotion of youth mainly with the expansion of activities at schools, the commemoration of Felix Hausdorff and the endeavor of achieving a higher ratio of females in mathematics in Bonn are issues which were very close to his heart. For his well-deserved retirement, the HCM wishes Michael Meier all the best and many healthy years to pursue his hobbies such as art and traveling.





## HAUSDORFF CALENDAR

**Evolution of Interfaces**

Trimester program activity  
**January 3 to April 26**

**Seminar for postdocs: Third-party funding – from the first idea to the proposal**

*Dr. Martina van de Sand*  
**April 3, 10 am - 5 pm**

**Colloquium on the occasion of Jens Frehse's 75th birthday**

*Lisa Beck (Augsburg), Moritz Kassmann (Bielefeld), Jens Frehse*  
**April 5, 2 pm**

**Hausdorff Colloquium**

*Federico Rodriguez Hertz (Pennsylvania State University), Stefan Luckhaus (Universität Leipzig)*  
**April 10, 3:15 – 7 pm**

**Toeplitz Colloquium**

*Jan Wörler (Würzburg)*  
**April 15, 4 – 6 pm**

**Colloquium on the occasion of Sergio Albeverio's 80th birthday**

**May 2, 3 pm**

**Follow-up Workshop to TP "Harmonic Analysis and Partial Differential Equations"**

Trimester program activity  
**May 6 to 10**

**Kinetic Theory**

Junior Trimester programm  
**May 13 to August 23**

**Toeplitz Colloquium**

*Anselm Lambert (Saarbrücken)*  
**May 13, 4 – 6 pm**

**Felix Klein Lecture: Hodge theory and o-minimality**

*Benjamin Bakker*  
**May 16 to 24**  
**Poster**

**Lipschitz Lectures:**

**Kinetic limit for classical particles and waves**  
**May 20 to June 17**  
**Poster**

**Summer School: Trails in kinetic theory: foundational aspects and numerical methods**

**May 20 to 24**  
**Poster**

**Mathematischer Salon**

*Michael Korey*  
**May 23, 10 pm**

**Final conference of the SFB/TRR45 Bonn/Essen/Mainz "Geometry and Arithmetic of Algebraic Varieties"**

**June, 11 to 14**

**Hausdorff Colloquium**

*Francis Filbet (Université Paul Sabatier Toulouse III), Victor Nister (Université de Lorraine)*  
**June 19, 3:15 – 7 pm**

**Toeplitz Colloquium**

*Maria Remenyi (Wuppertal)*  
**June 24, 4 – 6 pm**

**BIGS Poster Exhibiton**

**June 27 to 28**

## HAUSDORFF EVENTS

## Mathematics at the Science Rally

In February, the Science Rally took place at the Campus Poppelsdorf. More than 100 interested young people, aged 13 to 17, participated on that day. As every year, we took part as well: Members of our HCM school team had a station at the HIM where they talked about the operation of the Enigma and sorting algorithms in Computer Science, using interactive exhibits to make the topics approachable for everyone. Furthermore, the Math Club of Bonn introduced themselves: Using the coloring of a chessboard the attendees were encouraged to discover for themselves how coloring proofs can be an elegant tool.



## HAUSDORFF MIXED



## Eva Kopfer receives the Hausdorff Memorial Prize

In January the Department of Mathematics awarded Eva Kopfer with the traditional Hausdorff Memorial Prize. She wrote her thesis “Heat Flows on Time-Dependent Metric Measure Spaces” under the supervision of Karl-Theodor Sturm. Eva Kopfer studied gradient flows in the time-dependent case and examined the relationship between energy and entropy.

In addition, the Bonn Mathematical Society rewards the best graduating Bachelor students in mathematics. This year the following three students were awarded: Meike Neuwohner, Niklas Schlomberg (advisor of both: Jens Vygen) and Adrian Riekert (advisor: Massimiliano Gubinelli).

Follow this [link](#) to find more information.



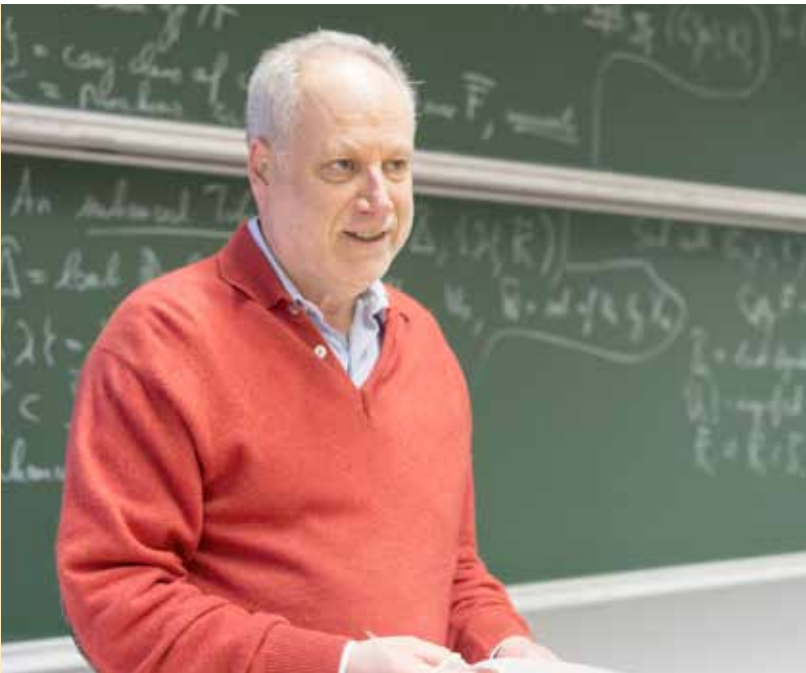
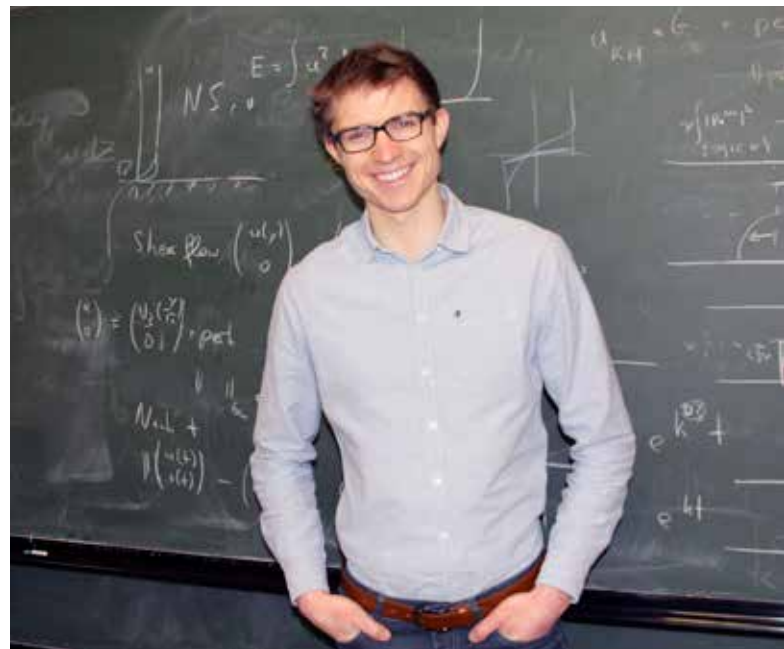


## HAUSDORFF MIXED

## Rhodes Scholarship for Peter Holderrieth

University of Bonn student Peter Holderrieth is one of two German students to be awarded a Rhodes Scholarship to study at the University of Oxford starting in fall 2019! To be eligible the 21 years old Peter Holderrieth not only had to exhibit exceptional academic results but also had to convince a jury of being value-driven and staying true to his principles. The versatile mathematics and music enthusiast is going to do his master at Oxford University. Will he return to Bonn afterward?

You can read his answer and find more information [here](#).



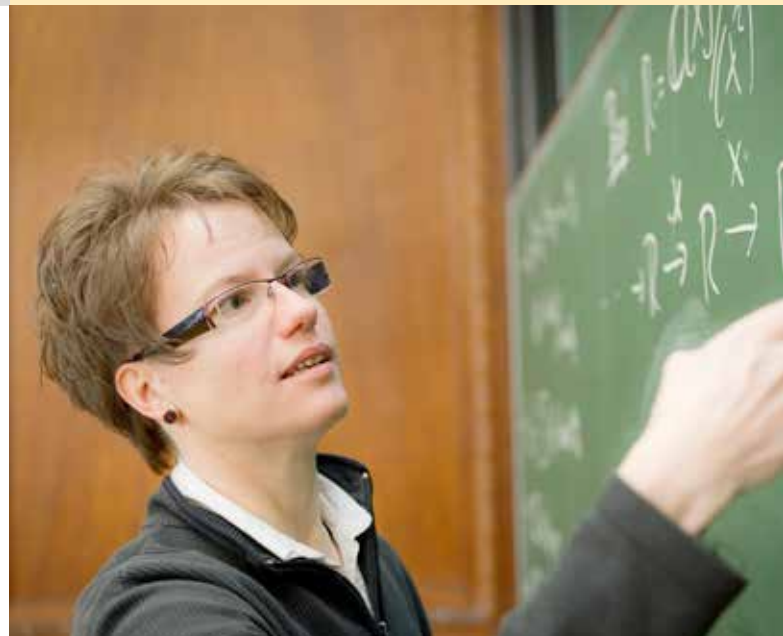
## Interview with Michael Rapoport

At the beginning of the year, Michael Rapoport gave a remarkable interview for the SPIEGEL in which he not only talks about his protégé Peter Scholze and his mother who was active academically into old age but also gave some insight into his personal life: Dealing with failed attempts at solving mathematical problems can be very demoralizing, for example. Rapoport also discusses the sociology in mathematical institutes and the ambivalent experiences that he had with some of his colleagues.

You can find the whole [interview](#) at (unfortunately hidden behind Paywall)

## Leopoldina elects Catharina Stoppel as member

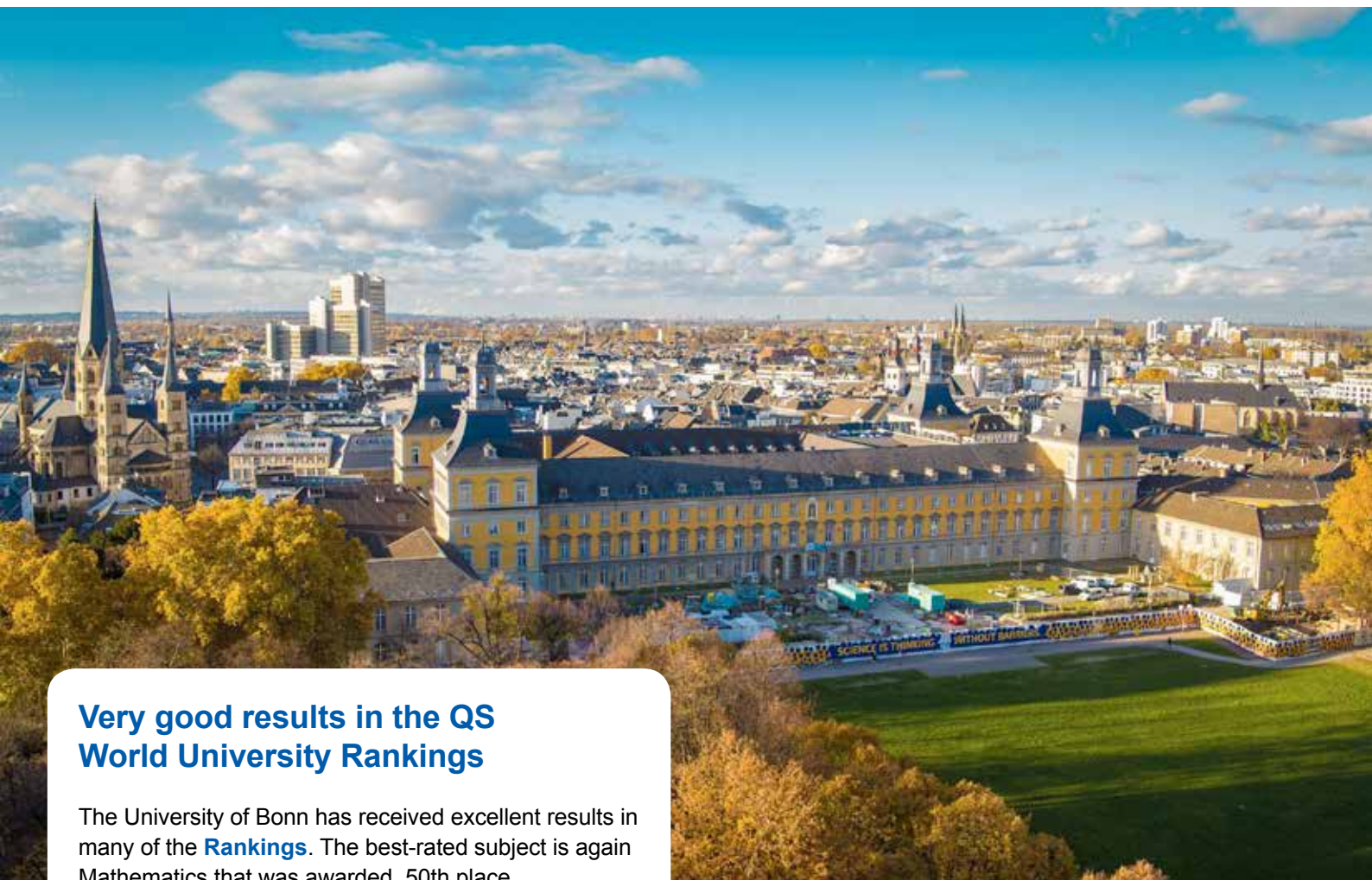
The Leopoldina, as one of the oldest scientific academies in the world, welcomes Catharina Stoppel as a new Academy member. Follow this [link](#) for more information and diverse press releases.



## HAUSDORFF MIXED

## HCM article in the “Mitteilungen der Deutschen Mathematiker-Vereinigung”

In a special edition of the “Mitteilungen der Deutschen Mathematiker-Vereinigung” all the mathematical Clusters of Excellence, including the HCM, were presented at the end of the year. In an extensive interview, Theodor Sturm talks among other things about the position of Bonn in the international competition. Furthermore, Stefan Hartmann presents the Hausdorff School. In the article “Mathematical Modelling in Immunotherapy of Cancer” Anna Kraut (IAM) explains her research to a general audience. You can find the translated articles at our [website](#).



## Very good results in the QS World University Rankings

The University of Bonn has received excellent results in many of the [Rankings](#). The best-rated subject is again Mathematics that was awarded 50th place.

## IMPRESSUM

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