

# RANDOM BITS

SUMMER EDITION

1 JUNE, 2026

## DEAR MEMBERS & FRIENDS OF THE SFB,

Here is your summer edition of Random Bits. In this edition, we share the highlights of the first half of this year. Read on for a review of our activities.

## A STATUS UPDATE ON OUR EVENTS

The **Winter Status Workshop** in February brought our big group together once again; this time in our second home base Graz. Our presenters faced the challenge of bringing their research to an incredibly diverse set of mathematicians, who do not always share the same terminology.

Our colleague Anna Geisler said after her presentation: *"This was a great opportunity to learn from people who have studied these models in much more detail and indeed the questions coming up after my talk are very interesting."*

## LANGE NACHT DER FORSCHUNG (LNF) 2026



Our first **Long Night of Research (LNF)** participation went off without a hitch! Visitors got to generate or win their own spacetime model, watch a Chladni patterns demonstration or take home a fun Turing pattern flyer.

The main building saw 4700 visitors on the night and at times it felt as if many of them were in the room with us. Many thanks to RS team members and our University of Vienna colleagues, who made this night such a great success!

## WELCOMING OUR LATEST MEMBER

So far in 2026, we said good-bye to Michail Sarantis and welcomed a new member. Say hello to Mike Liu, who has been based at TU Graz since beginning of the year. He has now officially joined the Random Structures team. Welcome on board, Mike!



## A SELECTION OF OUR PAPERS

So far this year, Random Structures team members published a total of 12 papers and 15 preprints. Browse some of our latest publications below.

Bounded degree graphs and hypergraphs with no full rainbow matchings (Wdowinski)

[Read the paper](#)

Zeros of planar Ising models via flat  $SU(2)$  connections (Lis)

[Read the paper](#)

Exponential decay in  $\mathcal{O}(n)$ -invariant quantum spin systems (Björnberg, Ryan)

[Read the paper](#)

Signed counting of partition matrices (Chern, Fu)

[Read the paper](#)

## WANT TO ATTEND ESI? IT'S EASY!

Workshops 1 & 2 of the ESI Thematic Program "Statistical Mechanics and Combinatorics of Discrete Planar Structures" are already fully booked. Grab your spot before it's too late!

[REGISTER FOR ESI HERE](#)



FOLLOW US ON  
SOCIALS!



## RANDOM STRUCTURES IN THE MEDIA

We have had a busy year with lots of interesting media collaborations:

Right on time for Pi Day, Rudolphina magazine published a piece on phase transitions with Nathanaël. Read the article "The strange maths behind freezing water, pandemics and rumours" [here](#).

Our team member Marcus was interviewed by University of Vienna for the *Early Stage Researchers* series. Watch the video [here](#).

Finally, Nishu was our latest member to be featured on Her Maths Story. Read about her academic journey from India and her plans for the future [here](#).

WISHING YOU A HAPPY SUMMER!

