

RESEARCH EXPOSURE WEEK

Technion | Sunday-Friday, August 29 – September 3, 2021

The Faculty of Mathematics at the Technion will hold its yearly student event, Exposure to Mathematical Research.

We are inviting all curious undergraduate students (finishing their 2nd and 3rd year of mathematical studies) to register.

Participants will have an opportunity to learn about some of the current challenges in mathematical research and to experience first-hand the type of work done by modern-day mathematicians.

The main program will consist of projects in small groups of 2-4 students, guided by faculty members and postdoctoral associates from the Faculty of Mathematics and exploring a topic of current interest.

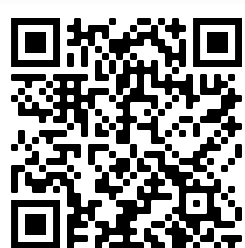
The program will also include social gatherings, and other activities. Housing, meals, and a stipend will be provided.

We look forward to meeting you and sharing our excitement for mathematical research and exploration!

Projects and mentors:

- ▶ Edgar Bering, Annette Karrer, Thomas Ng & Feng Zhu: **Surprising hyperbolic planes in reflection groups**
- ▶ Avi Berman, Suliman Hamud: **Spectral Graph Theory**
- ▶ Philippe Charron: **How hot can a JPEG image be?**
- ▶ Nick Crawford: **Percolation of Rooted Spanning Forests in Nonamenable Graphs**
- ▶ Ilya Gekhtman: **How do big balls in infinite groups distribute in finite quotients?**
- ▶ Howard Nuer: **Rationality of Cubic Hypersurfaces**
- ▶ Uri Shapira: **Sails and orbits**
- ▶ Gershon Wolansky: **Google navigation in Manhattan**
- ▶ Udi Yariv: **Taylor dispersion**

Organizers: Nick Crawford, Maxim Gurevich & Liran Rotem



Application form and further details are available on the website:
<https://cms-math.net.technion.ac.il/research-exposure-week-2021/>
The number of positions is limited. Please apply as soon as possible.

(*) Registration is open also to master students at the beginning of their studies.