MATH RESEARCH PROJECTS

Technion, September 22-26, 2019

The faculty of Mathematics at the Technion is inviting motivated undergraduate students
(finishing their 2nd and 3rd year*)

to experience mathematical research in a week of projects

The projects will be mentored by professors, postdocs and graduate students from the Faculty of Mathematics.

Each group will consist of 2-4 students working on the same research topic. In addition, the program includes social gatherings with the faculty members. Housing, meals, and a stipend will be provided.

Projects and mentors:

- Avi Berman: **Expander graphs**
- Nick Crawford: **Fermions and spanning forests**
- Victor Kolobov and Simeon Reich: **Projection Methods**
- Ivan Levcovich and Alex Margolis: **Quasi-isometries of trees and infinite ended spaces**
- Erez Nesharim, Uri Shapira and Shucheng Yu: **Linear flows in the space of lattices**
- Amy Novick-Cohen: **Geometric motions**
- Tali Pinsky: **The Lie algebra of modular knots**
- Liran Rotem: **The geometric mean of convex bodies**
- Shoham Sabach and Shimrit Shtern: **Classifying critical points of non convex quadratic functions**
- Orr Shalit: **Numercial explorations of open problems in operator theory**

Organizers: Michael Khanevsky, Nir Lazarovich, Tali Pinsky and Ron Rosenthal

Application form and further details are available on the website:
https://cms-math.net.technion.ac.il/summer-projects-2019/
The number of participants is limited. Please apply as soon as possible.
(*) Registration is also open to master students at the beginning of their studies.