

Department of Mathematics, BGU

A night of mathematics and Jazz

All faculty and students are cordially invited.

Program

18:00 Undergraduate math club *Barak Weiss*, Tel Aviv University

The illumination problem

The following elementary problem in geometry is still open: given a polygon P in the plane, say that points x and y in P *see each other* if there is a billiard path from x to y . Is there a polygon in which infinitely many pairs of points do not see each other?

Such problems turn out to be easy to state but very difficult to solve. I will explain this and related questions in greater detail, and describe some recent progress which relies on well-known work of Eskin and Mirzakhani (part of the late Maryam Mirzakhani's Field medal citation).

19:00 A Jazz show by *Tsachik and the perverse sheaves* Ehud Ettun¹ on bass

Haruka Yabuno² on Piano

Tsachik Geland on drums

¹<http://www.ehudettun.com/>

²<https://harukayabuno.com/en>



Time: *Nov ,26 ,22:00—18:00 2017*

Location: *Math 101-*

Web: *<http://www.math.tau.ac.il/~barakw/action/firstmeeting/index.html>*