

Department of Mathematics, BGU

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## Combinatorics Seminar

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*On Tuesday, November ,27 2018*

*At 15:45 – 16:45*

*In 201*

Lena Yuditsky (BGU)

will talk about

### **Almost all string graphs are intersection graphs of plane convex sets**

Abstract: A *string graph* is the intersection graph of a family of continuous arcs in the plane. We prove the following structure theorem conjectured by Janson and Uzzell: The vertex set of *almost all* string graphs on  $n$  vertices can be partitioned into *five* cliques such that some pair of them is not connected by any edge ( $n \rightarrow \infty$ ). As a corollary, we obtain that *almost all* string graphs on  $n$  vertices are intersection graphs of plane convex sets.

This is a joint work with Janos Pach and Bruce Reed.

**Please Note the Unusual Time and Place!**