Department of Mathematics, BGU

BGU Probability and Ergodic Theory (PET) seminar

On Thursday, November ,1 2018

At 11:00 – 12:00

In 101-

J.C. Saunders (Ben-Gurion University)

will talk about

Sieve Methods in Random Graph Theory

Abstract: We apply the Tur\´an sieve and the simple sieve developed by Ram Murty and Yu-Ru Liu to study problems in random graph theory. More specially, we obtain bounds on the probability of a graph having diameter 2 (or diameter 3 in the case of bipartite graphs). An interesting feature revealed in these results is that the Tur´an sieve and the simple sieve "almost completely" complement to each other. This is joint work with Yu-Ru Liu.