Advanced Seminar in Combinatorics - Fall '13
Topics in Extremal Graph Theory

Instructor: Dr. Asaf Shapira

Time: Monday, 15:00-17:00

Prospective audience: The seminar is intended for graduate and advanced undergraduate students in Mathematics or Computer Science. The seminar will be a continuation of the course Extremal Graph Theory given in the Spring semester of 2012, although that course is **not** a prerequisite for taking the seminar.

Seminar Objective: Cover more advanced topics in extremal graph theory that we did not cover in the course.

Seminar workload: Each student (or pair of students) will need to prepare a 2 hour presentation of one of the topics. I will supply a variety of papers/topics for presentation.

Overview: The best way to get an idea of the type of topics we will cover is to check the lecture notes of the course on extremal graph theory *http://www.math.tau.ac.il/∼asafico/ext-graph-theory/notes.pdf*. We will cover more advanced topics related to Ramsey Theory, Turan Problems and applications of the regularity lemma.