Speaker: Saket Saurabh

Title: Two Families Theorem in Graph Theory and Combinatorics

Abstract:

The Two-Families Theorem of Bollobas for extremal set systems and its generalization to subspaces of a vector space of Lovasz are the corner-stones in extremal set theory with numerous applications in graph and hypergraph theory, combinatorial geometry and theoretical computer science.

We refer to Gil Kalai's blog
http://gilkalai.wordpress.com/2008/12/25/lovaszs-two-families-theorem
for more information on these theorems. In this talk we will survey these two results and show its applications in the domain of combinatorics and graph theory.