Seminar on Combinatorial Computing
February 9, Wednesday, 6:30 p.m.
Room 3212, Graduate Center
365 Fifth Avenue, New York

Application of Allowable Sequences to Plane Geometry

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Abstract

We shall briefly describe the method of allowable sequences invented by Goodman and Pollack. We will then present some geometric applications of this method. For example, let G be a set of n red points and n blue points in general position in the plane. A balancing line is a line l spanned by two points of G so that in each of the two open half-planes bounded by l, the number of red points and the number of blue points are the same. We prove a conjecture of Baloglou, which states that G has at least n balancing lines.

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or visit our website: http://math.gc.cuny.edu/Seminars/Combinatorics.html