Geometry Seminar
March 12, 2002, Tuesday, 6:00 p.m.
Room 1013, Courant Institute
251 Mercer Street, New York

Covering a triangle with homothetic copies

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Abstract

Let H be a triangle and let $H_1, ..., H_n$ be (positive) homothetic copies of H. We prove a conjecture of A. Bezdek and K. Bezdek (1984), stating that if

$$\sum Area(H_i) \geq 2Area(H),$$

then there exist translates of $H_1, ..., H_n$ that collectively cover H. We also discuss many realted unsolved questions.

For further information contact Janos Pach at pachcims.nyu.edu, or visit our website: http://www.math.nyu.edu/seminars/geometry_seminar.html