

Geometry Seminar
Tuesday, November 17, 2009
Room 202 WWH at 6:00 P.M.

On two Helly-type theorems

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We will discuss the following two problems:

1. Is it true that a finite family F of at least five convex bodies in R^n consists of isothetic parallelotopes provided any family of translations of F has Helly number two?
2. Determine the least positive integer $N = N(n)$ such that any finite separated collection of at least N convex bodies in R^n has a common support hyperplane provided any $n+1$ of the bodies have a common support hyperplane.

For more information please visit the seminar website at:
http://www.math.nyu.edu/seminars/geometry_seminar.html.