

1106-52-1676

Deborah Oliveros* (dolivero@matem.unam.mx), Instituto de Matematicas, Circuito Exterior C.U., Coyoacan, Mexico, 04510. *About the piercing number of boxes and beyond.* Preliminary report.

Finding the piercing numbers for families of convex sets, in relation with Helly's type theorems or Helly Gallai type theorems has been an interesting problem that has attract the attention of many people and, it is known, that theorems of such type are rare. In this talk, we will present some interesting behaviors' of Fractional Helly's Theorem as well as some new bounds for piercing the families of Boxes and flat boxes. (Received September 15, 2014)