## Geometric Incidences in Combinatorics

Jozsef Solymosi (University of British Columbia)

What is the maximum number of incidences determined by $n$ points and $m$ lines? The answer to this question is often hard to find depending on the underlining field and other possible constraints. On the other hand such questions arise naturally from various fields of mathematics and computer science, so it is important to understand incidence structures with high incidence numbers. I will mention some recent breakthrough results and many open problems.

