

COMBINATORICS
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Rigidity of Extremal Point-Line Arrangements

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Abstract: It is a classical theorem by Szemerédi and Trotter that n points and m lines in the Euclidean plane form at most $C(mn)^{2/3} + m + n$ incidences, and the bound is optimal up to the constant C . However, there is still no satisfactory description of configurations maximizing the number of incidences. As a small step toward such description, in this talk, I will show how to prove that the extremizers are rigid in some sense. This is based on joint work with Gabriel Currier and Jozsef Solymosi.

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MATHEMATICS
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