

Boris Aronov, Jiří Matoušek
On stabbing triangles by lines in 3-space

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Abstract: We give an example of a set P of $3n$ points in \mathbb{R}^3 such that, for any partition of P into triples, there exists a line stabbing $\Omega(\sqrt{n})$ of the triangles determined by the triples.

Keywords: combinatorial geometry, computational geometry, crossing number

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