

Terao's conjecture holds for triangular arrangements

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One of the most famous open problems in the topic of hyperplane arrangements is the so called *Terao's conjecture*, which states that the freedom of an arrangement depends on its combinatorics. After giving an introduction to the problem, we will focus our attention on the special case of *triangular arrangements* in the projective plane, i.e. with all the lines passing through three fixed points. We prove that the conjecture holds for this case, which therefore represents one of the few non trivial families that are evidence in favour of the conjecture. This is a joint work with Jean Vallès.