

Juggling between Helly's theorem and Cayley's theorem

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Resumo/Abstract:

Helly's theorem asserts that for every finite family of convex sets in d -dimensional space if every $d+1$ sets in the family have a point in common then all sets in the family have a point in common. I will describe an extension of this result conjectured by Kachalski and Perles and how it is related to Cayley's famous formula for counting labelled trees.