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## Recent results for the containment problem and Waldschmidt constants

The interest for the containment problem of symbolic powers of ideals in ordinary ones has grown in the last years, producing many interesting papers and arising new related problems. I will mainly focus on some result with B. Harbourne and S. Cooper, about a series of conjectures with different "containment behaviour". In general, in these cases the studied ideals are ideals of zero-dimensional schemes. Another class of interesting ideals is given by square-free monomial ideals, were the conjecture were proved by (Cooper, Embree, H'a, Hoefel). Here, the authors proposed a different approach to compute the Waldschmidt constant of the ideal based on the symbolic polyedron. I will show that for square-free monomial ideals associated to a graph we can give a description of the Waldschmidt constant in term of the combinatorial data of the graph.