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Cuspidal plane curves, syzygies and a bound on the MW-rank

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Let C=Z(f) be a reduced plane curve of degree 6k, with only nodes and ordinary cusps as singularities. Let 1 be the ideal of the points where C has a cusp. Let $o D S(-b_i)$ to $O P S(-a_i)$ to S T S = a minimal resolution of <math>1. We show that $b_i \leq C = x^3 + f$ equals 2#(i = 5k). Using this we find an upper bound for the Mordell-Weil rank of U = 1/18 (125 + 1/1

Comments:	Slightly improved bound; Section 3 is rewritten; Several minor corrections in the other sections
Subjects:	Algebraic Geometry (math.AG); Commutative Algebra (math.AC)
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