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Depth and minimal number of generators of square free monomial ideals

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Let \$I\$ be an ideal of a polynomial algebra \$S\$ over a field generated by square free monomials of degree \$\geq d\$. If \$I\$ contains more monomials of degree \$d\$ than \$(n-d)/(n-d+1)\$ of the total number of square free monomials of \$S\$ of degree \$d+1\$ then \$\depth_SI\leq d\$, in particular the Stanley's Conjecture holds in this case.

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