

Values and bounds for the Stanley depth

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ABSTRACT.

We give different bounds for the Stanley depth of a monomial ideal I of a polynomial algebra S over a field K . For example we show that the Stanley depth of I is less than or equal to the Stanley depth of any prime ideal associated to S/I . Also we show that the Stanley conjecture holds for I and S/I when the associated prime ideals of S/I are generated by disjoint sets of variables.

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