



Mathematics > Commutative Algebra

Several inequalities regarding sdepth

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We give several bounds for $\text{sdepth}_S(I+J)$, $\text{sdepth}_S(I \cap J)$, $\text{sdepth}_S(S/(I+J))$, $\text{sdepth}_S(S/(I \cap J))$, $\text{sdepth}_S(I:J)$ and $\text{sdepth}_S(S/(I:J))$ where $I, J \subset S = K[x_1, \dots, x_n]$ are monomial ideals. Also, we give several equivalent forms of Stanley Conjecture for I and S/I , where $I \subset S$ is a monomial ideal.

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