

عنوان مقاله:

POLYMATROIDAL IDEALS AND LINEAR RESOLUTION

محل انتشار:

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خلاصه مقاله:

Let $S=K[x_1, \dots, x_n]$ be a polynomial ring over a field K and $I \subset S$ be a monomial ideal with a linear resolution. Let $\mathfrak{m}=(x_1, \dots, x_n)$ be the unique homogeneous maximal ideal and $I \subset \mathfrak{m}$ be a polymatroidal ideal. We prove that if either I is polymatroidal with strong exchange property, or I is a monomial ideal in at most r variables, then I is polymatroidal. We also show that the first homological shift ideal of a polymatroidal ideal is again polymatroidal.

کلمات کلیدی:

polymatroidal ideals, monomial localization, linear quotients, linear resolution, homological shift ideal

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