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The Waring rank of binary binomial forms. (English) Zbl 07411001

Summary: We give an explicit formula for the Waring rank of every binary binomial form with complex coefficients. We give several examples to illustrate this, and compare the Waring rank and the real Waring rank for binary binomial forms.

MSC:
13F20 Polynomial rings and ideals; rings of integer-valued polynomials
11P05 Waring's problem and variants
14N05 Projective techniques in algebraic geometry

Keywords:
Waring problem; Sylvester algorithm; perp ideal; Hilbert function; secant varieties; apolarity theory

Full Text: DOI