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Mathematics > Algebraic Geometry

Star configurations on generic hypersurfaces

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(Submitted on 2 Apr 2012 (v1), last revised 11 Apr 2012 (this version, v2))

Let F be a homogeneous polynomial in $S = \mathbb{C}[x_0,...,x_n]$. Our goal is to understand a particular polynomial decomposition of \$F\$; geometrically, we wish to determine when the hypersurface defined by \$F\$ in hathbb{P}^n\$ contains a star configuration. To solve this problem, we use techniques from commutative algebra and algebraic geometry to reduce our question to computing the rank of a matrix.

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