

ON THE HEIGHT OF A RATIONAL PARAMETRIZATION OF A PLANE ALGEBRAIC CURVE

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ABSTRACT. Given a homogeneous irreducible polynomial $F \in \mathbb{Z}[x, y, z]$ defining a rational plane curve \mathcal{C} in $\mathbb{P}^2(\mathbb{Q})$, we study the height of an algebraically optimal parametrization obtained when we apply Sendra-Winkler's Optimal-Parametrization algorithm in terms of the degree and height of F .

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