

TOPOLOGY OF PLANE CURVES AND DISCRIMINANTS

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ABSTRACT. We explore the relation between the topology of the fibers of a polynomial in two complex variables and the degree of the associated discriminant, see Theorem 2.9. This gives, in particular, lower and upper bounds for this degree, and the polynomials realizing these bounds, or even close values, can be described geometrically, see Corollaries 3.1, 3.2, 3.3 and 3.4.

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