

DISCRIMINANT, GENERAL TYPE AND VERTEX OF A FAMILY OF POLYNOMIALS

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ABSTRACT. In this talk we will give a formal expression to the limits of dual plane curves by using the method introduced by Katz ([1]). As an application, we will give a formula to compute the *vertices* of $C(0)$ a plane curve in $C(t)$ a one-parameter family of plane curves and we will show that those vertices depend only on the first τ terms of that family, where τ is the *general type* of $C(t)$.

REFERENCES

- [1] S. Katz, *Discriminants and limits of duals of plane curves*, Contemp. Math. **123** (1991), 99–106.

Key words and phrases. Discriminants; family of polynomials; general type; vertex.