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Topological classification at infinity of polynomials of two complex variables. (Classification topologique à l'infini des polynômes de deux variables complexes.) (French. Abridged English version) Zbl 0804.32020

C. R. Acad. Sci., Paris, Sér. I 318, No. 5, 461-466 (1994).

Let f be a polynomial of two complex variables, ($f \in C[x, y]$). In order to obtain a topological classification at infinity of polynomials the author constructs a tree of resolution at infinity for f , denoted by $A_\infty(f)$. An equivalence relation in the set of trees of resolution at infinity for polynomials is given by blowing up and blowing down. The topological conjugacy at infinity for a pair of two polynomials is also defined. The main result: Two polynomials f and g in $C[x, y]$ are topologically conjugate at infinity if and only if $A_\infty(f)$ and $A_\infty(g)$ are equivalent.

Reviewer: I.Serb (Cluj-Napoca)

MSC:

32S45 Modifications; resolution of singularities (complex-analytic aspects)

14E15 Global theory and resolution of singularities (algebraic-geometric aspects)

Cited in **2** Documents

Keywords:

resolution at infinity; blowing up; topologically conjugate