

The Łojasiewicz exponent of non-degenerate surface singularities

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08.05.2020 IMPANGA SEMINAR

Let f be an isolated singularity at the origin of \mathbb{C}^n . One of many invariants that can be associated with f is its Łojasiewicz exponent $\mathcal{L}_0(f)$, which measures, to some extent, the topology of f . We give, for generic surface singularities f , an effective formula for $\mathcal{L}_0(f)$ in terms of the Newton polyhedron of f – a combinatorial object associated to f . This is a realization of one of Arnold's postulates.
