

THE ZETA FUNCTION OF THE MONODROMY OF A SINGULARITY

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Let (X, x) be the germ of a complete intersection in \mathbb{C}^N and $f : (X, x) \rightarrow (\mathbb{C}, 0)$ be the germ of an analytic function with a singularity at x . An important invariant of f is the zeta function of its monodromy. We give a survey on known results about this function. Recently, for singularities whose coordinate rings possess natural filtrations such as quasihomogeneous and irreducible curve singularities, relations of these functions with the Poincaré series of these filtrations were discovered. We review these results.