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Uli Walther*, Dept of Math, Purdue University, West Lafayette, IN 47907. *The logarithmic complex of an Euler homogeneous divisor.*

The Liouville form on the tangent space of a complex manifold can be used to write down an interesting type of complex, one for each Euler homogeneous divisor, which we call "logarithmic complexes".

It is an open problem to determine the homology of logarithmic complexes, at present none is known that is not a resolution.

We discuss applications of this complex (for special kinds of divisors) to D-module theoretic singularity invariants. (Received January 13, 2015)