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Christopher D. Hacon*, 155 S 1400 E Room 233, Salt Lake City, UT 84112. *Which Powers of a Holomorphic Function are Integrable?*

Let $f = f(z_1, \dots, z_n)$ be a holomorphic function defined on an open subset $P \in U \subset \mathbb{C}^n$. The log canonical threshold of f at P is the largest $s \in \mathbb{R}$ such that $|f|^{-s}$ is locally integrable at P . This invariant gives a sophisticated measure of the singularities of the set defined by the zero locus of f which is of importance in a variety of contexts (such as the minimal model program and the existence of Kähler-Einstein metrics in the negatively curved case). In this talk we will discuss recent results on the remarkable structure enjoyed by these invariants. (Received September 11, 2013)