

Harvard-M.I.T. Algebraic Geometry Seminar

DIVISORS ESSENTIAL FOR MULTIPLIER IDEALS

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Multiplier ideals have become an important tool in birational geometry. The multiplier ideal of a pair (X, D) where D is a divisor on a smooth variety consists of those regular functions which have certain prescribed orders of vanishing along each of the exceptional divisors in a log resolution of (X, D) . However, examples show that in fact, only some subset of these exceptional divisors are really needed. A natural question arises: Which exceptional divisors are essential to the computation of the multiplier ideal? We will give a precise characterization of such divisors in the case where X is a surface, and propose a conjectured characterization in arbitrary dimension. This is joint work with Howard Thompson.

Tuesday, March 6th
3:00 p.m.
Harvard Science Center 507

<http://www-math.mit.edu/ags/>