

Harvard-M.I.T. Algebraic Geometry Seminar

WHAT KIND OF MANIFOLDS ADMIT NOWHERE VANISHING HOLOMORPHIC ONE-FORMS?

SÁNDOR KOVÁCS

University of Washington

Nowhere vanishing holomorphic one-forms imply many interesting properties of the underlying variety. I will discuss some of these properties as well as a related conjecture, according to which the existence of nowhere vanishing holomorphic one-forms on a variety means that its Kodaira dimension cannot be maximal, i.e., that varieties of general type do not admit any nowhere vanishing holomorphic one-forms. I will also discuss what's known about this conjecture and some related questions.

Tuesday, March 22nd, 2005

3:00 p.m.

Harvard Rm 507

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