

Algebraic Geometry Seminar

Jet differentials and algebraic hyperbolicity properties

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Abstract: On a projective variety of general type, one can prove the existence of sections of certain jet bundles of sufficiently high order and degree, and even evaluate the growth of their cohomology groups. New algebraic concepts of "strong general type" and "jet algebraic hyperbolicity" can be derived from there, that imply hyperbolicity properties for transcendental entire curves. Related techniques have been used recently by Damian Brotbek to confirm a version of the Kobayashi conjecture on the generic hyperbolicity of hypersurfaces of large degree.

Wednesday, April 26 at 11:00 AM in SEO 427