

Public Abstract

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Graduation Term:SS 2012

Department:Mathematics

Degree:PhD

Title:On projective morphisms of varieties with nef anticanonical divisor

We shall study and discuss some important properties of the projective varieties with nef anticanonical bundles and nef tangent bundles. And we shall review some background and history about the subject. Then we shall use weak positivity theorem to give a new proof of a theorem of Olivier Debarre without using mod p reduction, which gives an affirmative answer to a question raised by Fujino and Gongyo.