

PROGRAMME THÉMATIQUE
« POINTS RATIONNELS, COURBES RATIONNELLES ET COURBES ENTIÈRES SUR LES VARIÉTÉS ALGÈBRIQUES »
3–28 JUIN, 2013

THEMATIC PROGRAM
“RATIONAL POINTS, RATIONAL CURVES AND ENTIRE HOLOMORPHIC CURVES ON ALGEBRAIC VARIETIES”
JUNE 3–28, 2013

Minimal models for Kähler threefolds

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Rational curves play a crucial role in the minimal model program initiated by the seminal work of Mori. While the MMP made some very impressive progress in the last years for projective varieties of arbitrary dimension, we do not know much about the bimeromorphic geometry of non-algebraic compact Kähler varieties. In this talk I will report on *joint work with Thomas Peternell* : we prove that if X is a compact Kähler threefold that is not uniruled, then X has a minimal model. Since many of the typical positivity arguments from the MMP are not available in the non-algebraic setting, rational curves are once again at the center of our approach.

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