

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

del Pezzo fibrations and K3 surfaces

Brendan Hassett *

hassett@rice.edu

URL : www.math.rice.edu/~hassett

Consider a threefold fibered in quartic del Pezzo surfaces over the projective line. We are interested in the geometry of the space of sections of this fibration, and in particular, its stable behavior as the height of the sections grows. We present a class of examples where this is governed by the geometry of lattice-polarized K3 surfaces, via constructions akin to those pioneered by Mukai.

Joint work with Tschinkel.

*Department of Mathematics, Rice University, 6100 S. Main Street, Houston, TX 77251–1892, USA.