

Birational Arakelov geometry

Atsushi Moriwaki (Kyoto Univ.)

Sakura Workshop "Torsion of abelian schemes and rational points on moduli spaces" - I.M.B.,
January 25th - 29th, 2010

The study of birational geometry of algebraic varieties is almost equivalent to understanding asymptotic behavior of sufficiently large multiples of a big divisor. Birational Arakelov geometry is an arithmetic analogue via Arakelov geometry. In this talk, I will discuss with recent developments of this area, like, arithmetic volume functions, the continuity of arithmetic volume functions, arithmetic linear series, Zariski decompositions, arithmetic Fujita's approximation theorem and so on.