

ID de Contribution: 44 Type: Non spécifié

Counting points on algebraic varieties over the rational numbers

jeudi 11 juillet 2019 15:00 (1 heure)

For both conceptual and practical reasons it is useful to have estimates on the number of points of algebraic varieties over Q, usually phrased in terms of asymptotics as the height of points increases. I will present a new such estimate, improving previous results by Bombieri, Pila, Heath-Brown, Browning, Salberger, Walsh and others. Time permitting, I will present an application to bounding the 2-torsion part of class groups of number fields.

This is joint work with Wouter Castryck, Raf Cluckers and Kien Huu Nguyen.

Summary

Orateur: DITTMANN, Philip (KU Leuven)

Classification de Session: Arithmetic geometry and Galois theory