

Enumeration: points, curves, heights

August 2 - August 6, 2027
Mathematics Center, Bonn

This school on “point counting” connects ideas in analytic number theory, algebraic number theory, algebraic geometry, harmonic analysis, and logic. Lecturers will describe approaches to a long-standing question of Serre on counting rational points in thin sets, including determinant methods and polynomial sieve methods. Lecturers will also survey work in the theory of heights of algebraic numbers, with connections to Diophantine analysis, geometry of numbers, and structure of number fields.

Speakers:

Shabnam Akhtari (Penn State University)
Raf Cluckers (CNRS, University of Lille/KU Leuven)
Jonathan Pila (University of Oxford)
Martin Widmer (Graz)
Katharine Woo (ETH)

Special Topic School

Organizers:

Shabnam Akhtari (Penn State University)
Raf Cluckers (CNRS, University of Lille/KU Leuven)
Lillian Pierce (Duke University)

Call for participation:

Participation is free. If you are interested, please fill out the application form. For a limited number of participants financial support is available upon request.

