

EXPLICIT METHODS IN NUMBER THEORY
JULY 22-28, 2018

The workshop will bring together people attacking key problems in number theory via techniques involving concrete or computable descriptions. Here, number theory is interpreted broadly, including algebraic and analytic number theory, Galois theory and inverse Galois problems, arithmetic of curves and higher-dimensional varieties, zeta and L -functions and their special values, and modular forms and functions. Considerable attention is paid to computational issues, but the emphasis is on aspects that are of interest to the pure mathematician.

In addition, the workshop will feature a minicourse on nonabelian Chabauty theory, because of the potential for advances in this field that have become apparent in recent years. This is a program aimed at determining the rational and integral points on curves over number fields.