Abstract

Oberwolfach Workshop:

Group Actions and Harmonic Analysis in Number Theory

Dates:

7 May - 13 May 2023   (Code: 2319)

Organizers:

Valentin Blomer, Bonn
Manfred Einsiedler, Zürich
Emmanuel Kowalski, Zürich
Maryna Viazovska, Lausanne

This proposal focuses on new problems and new methods at the interface of harmonic analysis (taken in a very broad sense) and ergodic theory, with applications focused in number theory. A special emphasis is on equidistribution problems on arithmetic symmetric spaces, effective methods in homogeneous dynamics, periods of automorphic forms, families of L-functions over number fields and functions fields, and applications of Fourier uniqueness.