The Arithmetic of Fields

Organised by
Moshe Jarden (Tel Aviv)
Florian Pop (Philadelphia)
Leila Schneps (Paris)

February 1st – February 7th, 2009

Abstract. The workshop “The Arithmetic of Fields” focused on a series of problems concerning the interplay between number theory, arithmetic and algebraic geometry, Galois theory, and model theory, such as: the Galois theory of function fields / covers of varieties, rational points on varieties, Galois cohomology, local-global principles, lifting/specializing covers of curves, model theory of finitely generated fields, etc.

Mathematics Subject Classification (2000): 12E30.

Introduction by the Organisers

The sixth conference on “The Arithmetic of Fields” was organized by Moshe Jarden (Tel Aviv), Florian Pop (Philadelphia), and Leila Schneps (Paris), and was held in the week February 1–7, 2009. The participants came from 14 countries: Germany (14), USA (11), France (7), Israel (7), Canada (2), England (2), Austria (1), Brazil (1), Hungary (1), Italy (1), Japan (1), South Africa (1), Switzerland (1), and The Netherlands (1). All together, 51 people attended the conference; among the participants there were thirteen young researchers, and eight women.

Most of the talks concentrated on the main theme of Field Arithmetic, namely Galois theory and its interplay with the arithmetic of the fields. Several talks had an arithmetical geometry flavour.

All together, the organizers find the blend of young and experienced researchers and the variety of subjects covered very satisfactory.