Corps et polynômes

geometry. Many of the leaders in the subject were brought together to present an account of research in the last century as well as speculations for possible further research. The papers in this volume cover a broad spectrum of number theory including geometric, algebrao-geometric and analytic aspects. This volume will appeal to number theorists, algebraic geometers, and geometers with a number theoretic background and to mathematicians (research students) who are interested in being informed in the state of number theory today and in possible developments for the future.

Corps et polynômes

Helmut KOCH. — **Galois theory of *p*-extensions**. — Springer monographs in mathematics. — Un vol. relié, 16×24, de XIII, 190 p. — ISBN 3-540-43629-4. — Prix: €69.95. — Springer, Berlin, 2002.

First published in German in 1970 and translated into Russian in 1973, this classic now becomes available in English. After introducing the theory of pro-*p* groups and their cohomology, it discusses presentations of the Galois groups *Gs* of maximal *p*-extensions of number fields that are unramified outside a given set *S* of primes. It computes generators and relations as well as the cohomological dimension of some *Gs*, and gives applications to infinite class field towers. The book demonstrates that the cohomology of groups is very useful for studying Galois theory of numbers fields; at the same time, it offers a down to earth introduction to the cohomological method.

Géométrie algébrique

M.C. BELTRAMETTI, F. CATANESE, C. CILIBERTO, A. LANTERI, C. PEDRINI. — **Algebraic geometry: a volume in memory of Paolo Francia.** — Un vol. relié, 18×24,5, de X, 355 p. — ISBN 3-11-017180-5. — Prix: €138.32. — Walter de Gruyter, Berlin, 2002.

The volume consists of invited refereed papers dedicated to the memory of Paolo Francia, who was an outstanding mathematician at the University of Genoa where he held a chair of geometry. The contributions cover a wide spectrum of algebraic geometry, ranging from motives theory to numerical algebraic geometry, and are mainly focused on higher dimensional varieties and minimal model program, and also on surfaces of general type. Partly the articles are based on talks given at a Conference in Memory of Paolo Francia (1951-2000) held in Genoa in September 2001. In addition to algebraic geometers, the volume will be of interest also to researchers working in differential geometry and commutative algebra.

Anatoly LIBGOBER, Mihai TIBĂR, (Editors). — **Trends in singularities**. — Trends in mathematics. — Un vol. relié, 17×24, de IX, 246 p. — ISBN 3-7643-6704-0. — Prix: SFr. 132.00. — Birkhäuser, Basel, 2002.

The collection of papers in this volume represents recent advances in the geometry and topology of singularities. Written by well-known specialists, the articles cover a broad range of topics that provide a focus for ongoing research and investigation. The contributions discuss local as well as global aspects, endowing the reader with an overview on the present state of the art. The volume is intended for a large audience in pure and applied mathematics, including researchers and graduate students working in algebraic geometry, singularity theory, topology and related fields. The reader will find up-to-date information on a wide variety of contemporary problems involving singularities.