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# Finite Fields and Applications

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## Preface

This volume represents the refereed proceedings of the *Third International Conference on Finite Fields and Applications* held at the University of Glasgow, Scotland, 11-14 July, 1995, where it was hosted by the Department of Mathematics. The conference, often referred to as  $\mathbb{F}_q3$ , was the successor of two other international conferences concerning finite fields held at the University of Nevada, Las Vegas, USA, in August 1991 and in August 1993. The Organising Committee comprised Steve Cohen, Stuart Hoggar, Bob Odoni (all of the University of Glasgow), James Hirschfeld (University of Sussex), Gary Mullen (Pennsylvania State University), Harald Niederreiter (Austrian Academy of Sciences) and Peter Shiue (University of Nevada, Las Vegas).

Finite fields with their tight structure are intrinsically fascinating; further, their study is now recognised to be extremely useful in diverse areas of pure and applicable mathematics, including aspects of number theory, algebra, analysis and algebraic geometry and, at the same time, manifold aspects of information theory, computer science and engineering. For example, coding theory is enriched by deep ideas, crucially involving finite fields, on exponential sums, function fields and linear algebra, and in turn, has stimulated further questions for finite field research. Indeed, what is particularly exciting in current activity is the interplay between various areas, within pure mathematics itself and within those having definite applications. A further sign of this vitality is the emergence in 1995 of the journal *Finite Fields and Their Applications* published by Academic Press.

Consistent with the above, the aim of  $\mathbb{F}_q3$  was to bring together researchers from different backgrounds to discuss problems which have finite fields as a unifying theme. In the event, around 150 participants from 25 countries attended; a list of their names is included in this volume. There were plenary addresses from 15 invited speakers, some of whom are distinguished more widely but who had something significant to say on the subject of finite fields. In addition, there were more than 70 contributed talks. For brevity we have not appended details here, though the programme, with abstracts, is available from Steve Cohen in Glasgow. We know that the insights provided through the various sessions and the many informal discussions have stimulated new collaborative efforts and fruitful research on various topics and that this influence continues.

The articles in these proceedings reflect the diverse yet interrelated topics considered at the conference and include a significant proportion of major invited papers. All have been refereed. The papers are listed simply in alphabetical order of author since, in a number of cases, it would not have been easy to categorise them. In fact, the reader will discern items containing complementary material, sometimes involving different viewpoints. A number of the papers contain valuable summaries of recent research activity and there

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are frequent pointers to guide the direction of future work; in particular, the article by Mullen and Shparlinski is devoted to a discussion of many open problems and conjectures. All in all, this should prove to be a useful reference work, appropriate to the *London Mathematical Society Lecture Note Series*. We certainly are appreciative in having our proceedings form part of that series and thank its editors for the opportunity. We also thank all contributors and referees.

We gratefully acknowledge the generous support of sponsors. The (UK) Engineering and Physical Sciences Research Council awarded a Visiting Fellowship Research Grant towards the expenses of many of the invited speakers. Professor Stepanov was supported by a grant from the fSU fund of the London Mathematical Society, which also contributed from its Conference Fund. Invaluable funding was provided by the (US) Department of the Navy, Office of Naval Research Europe; in particular, this enabled the active participation of several who would otherwise have been excluded and significantly broadened the scope of the conference.

We are also grateful for other provisions. From its Tercentenary Fund the Bank of Scotland sponsored fine conference bags. The University of Glasgow supplied the means for a memorable reception in the Hunterian Museum and provided other facilities including the helpful services of its Conference Office. Glasgow District Council and Strathclyde Regional Council jointly hosted a reception in the City Chambers.

Our special thanks go to Mary MacPhail for willing and efficient secretarial assistance from the initial planning stage through to the production of these proceedings. Arlene Anderson and Gail Henry also helped with the preparation of the Conference Programme.

Finally, we are pleased to confirm that there will be an “ $\mathbb{F}_q$ 4”. It will be held at the University of Waterloo, Ontario, Canada, in August 1997, the specific dates, as given to us, being 12–15 August, 1997. Because finite field research, so far from being static, is rather growing apace, we anticipate reports of further progress and new insights and applications on that occasion.

Stephen D Cohen  
Harald Niederreiter  
March 1996

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