

CONTEMPORARY MATHEMATICS

727

Rings, Modules and Codes

Fifth International Conference
Noncommutative Rings and their Applications
June 12–15, 2017
University of Artois, Lens, France

André Leroy
Christian Lomp
Sergio López-Permouth
Frédérique Oggier
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Preface

This proceeding contains many of the articles related to talks presented at the international meeting “Noncommutative Rings and their Applications V” that was held in Lens in June 2017. The theme of the meeting was essentially ring theory, module theory, and coding theory but related topics were also present. This is reflected in the present volume. The work and the enthusiasm of the participants created a nice and friendly atmosphere. This encouraged discussions leading to revitalizing cooperations or creating new ones. Many countries were represented and this international aspect was very nice to see. Prof. Oggier gave a marvelous course, a part of which is included in this volume. The four invited speakers Philippe Langevin, Christian Lomp, Sergio López-Permouth and Pace Nielsen enriched the conference with their talks. They all contributed to this volume in one way or the other. For the most part, contributors to this volume delivered related talks at the conference.

All papers were subject to a strict process of refereeing and we would like to thank warmly all the colleagues who served as anonymous referees for the articles in this volume and provided their valuable comments and recommendations. Their expertise and professionalism greatly contributed to the quality of this volume. Without their help, this proceeding would not exist.

The meeting was supported by the Laboratory of Mathematics in Lens (LML) and by different bodies of this university (RI, BQR) as well as the GDR “TLAG”.

We would like to thank all the participants for their kindness and enthusiasm during the conference. We would also like to thank Angelique Gérard, secretary of the Laboratory in Lens, for all her work and for making the administrative tasks as light as possible for all of us.

The editorial staff of the AMS, especially the clear and kind emails from Christine Thivierge and her patience, helped me a lot preparing the volume.

The editors

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This book contains the proceedings of the Fifth International Conference on Noncommutative Rings and their Applications, held from June 12–15, 2017, at the University of Artois, Lens, France.

The papers are related to noncommutative rings, covering topics such as: ring theory, with both the elementwise and more structural approaches developed; module theory with popular topics such as automorphism invariance, almost injectivity, ADS, and extending modules; and coding theory, both the theoretical aspects such as the extension theorem and the more applied ones such as Construction A or Reed–Muller codes. Classical topics like enveloping skewfields, weak Hopf algebras, and tropical algebras are also presented.



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