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Preface

This volume features the proceedings of the conference "Groups & Algebras in Bicocca for Young algebraists" (GABY 2024) that took place at the University of Milan–Bicocca, Italy, from June 17 to 21, 2024. This is the third edition of the conference, which was held for the first time in 2018 and for the second time in 2022 (due to covid emergency) with the aim of initiate a series of biennial conferences dedicated to young researchers in algebra.

GABY 2024 was attended by more than 70 young algebraists, from several different countries, including Armenia, Australia, Belgium, Czech Republic, England, France, Germany, India, Italy, Israel, Netherlands, Slovenia, Spain, Sweden, Switzerland, USA. It provided a welcoming atmosphere for exchanging mathematical ideas, while also encouraging reflection on key aspects of daily life through the E.D.I. (Equity, Diversity, and Inclusion) session held during the event. Additional details about the GABY conference and the EDI session are available on the website:

`https://staff.matapp.unimib.it/~/gaby/gaby2024`.

At the conference, Andrea Appel (University of Parma), Melissa Lee (Monash University), and Anitha Thillaisundaram (Lund University) each delivered a mini-course lasting four hours. This volume contains the expanded notes from these mini-courses, written by the three main speakers and subjected to peer-review.

The Editors believe this volume will be valuable for early-career mathematicians who are looking to familiarize themselves with a new topic and its related open questions. It will also serve as a useful resource for experts in the field, offering an overview of both well-established results and recent advancements in the subject.

The proceedings are edited by the non-profit association "AGTA — Advances in Group Theory and Applications", which the Editors

thank for the opportunity to publish the volume and continue a fruitful collaboration, started in the previous edition of GABY, that provides surveys on diverse subjects in algebra.

The Editors would like to thank the authors for their involvement in the project, as well as everyone who helped organize the conference. They also wish to express their gratitude to the following agencies and institutions for their financial support: Department of Mathematics of the University of Milano Bicocca, GNSAGA of INdAM, Doctoral School of the University of Milano Bicocca and University of Pavia, the Department of Science and High Technology of the University of Insubria.

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