

EM
5 ■
PRESS

EMS Series of Congress Reports

The *EMS Series of Congress Reports* publishes volumes originating from conferences or seminars focusing on any field of pure or applied mathematics. The individual volumes include an introduction into their subject and review of the contributions in this context. Articles are required to undergo a refereeing process and are accepted only if they contain a survey or significant results not published elsewhere in the literature.

Previously published in this series:

- Trends in Representation Theory of Algebras and Related Topics, *A. Skowroński (Ed.)*
K-Theory and Noncommutative Geometry, *G. Cortiñas et al. (Eds.)*
Classification of Algebraic Varieties, *C. Faber, G. van der Geer, E. Looijenga (Eds.)*
Surveys in Stochastic Processes, *J. Blath, P. Imkeller, S. Rælly (Eds.)*
Representations of Algebras and Related Topics, *A. Skowroński, K. Yamagata (Eds.)*
Contributions to Algebraic Geometry. Impanga Lecture Notes, *P. Pragacz (Ed.)*
Geometry and Arithmetic, *C. Faber, G. Farkas, R. de Jong (Eds.)*
Derived Categories in Algebraic Geometry. Toyko 2011, *Y. Kawamata (Ed.)*
Advances in Representation Theory of Algebras, *D. J. Benson, H. Krause, A. Skowroński (Eds.)*
Valuation Theory in Interaction, *A. Campillo, F.-V. Kuhlmann, B. Teissier (Eds.)*
Representation Theory – Current Trends and Perspectives, *H. Krause et al. (Eds.)*
Functional Analysis and Operator Theory for Quantum Physics. The Pavel Exner Anniversary Volume,
 J. Dittrich, H. Kovářík, A. Laptev (Eds.)
Schubert Varieties, Equivariant Cohomology and Characteristic Classes, *J. Buczyński, M. Michałek,
 E. Postinghel (Eds.)*
Non-Linear Partial Differential Equations, Mathematical Physics, and Stochastic Analysis,
 F. Gesztesy et al. (Eds.)
Spectral Structures and Topological Methods in Mathematics, *M. Baake, F. Götze, W. Hoffmann
 (Eds.)*
t-Motives: Hodge Structures, Transcendence and Other Motivic Aspects, *G. Böckle et al. (Eds.)*
Probabilistic Structures in Evolution, *E. Baake, A. Wakolbinger (Eds.)*
Partial Differential Equations, Spectral Theory, and Mathematical Physics. The Ari Laptev Anniversary
 Volume, *P. Exner, R. L. Frank, F. Gesztesy, H. Holden, T. Weidl (Eds.)*
Representations of Algebras and Related Structures, *A. B. Buan, H. Krause, Ø. Solberg (Eds.)*
Arithmetic of *L*-Functions, *D. Bullach, D. Macías Castillo (Eds.)*

Representations of Algebras and Related Topics

Proceedings of the Workshop and the 20th International Conference on Representations of Algebras, ICRA 2022,
Montevideo, Uruguay and Buenos Aires, Argentina,
3–12 August 2022

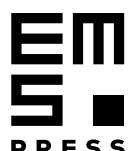
Edited by

Lidia Angeleri Hügel

Bernhard Keller

María Julia Redondo

Andrea Solotar



Editors

Lidia Angeleri Hügel
Dipartimento di Informatica
Università degli Studi di Verona
Settore di Matematica
Strada le Grazie 15 - Ca' Vignal
37134 Verona, Italy

Email: lidia.angeleri@univr.it

María Julia Redondo
Instituto de Matemática (INMABB)
Departamento de Matemática
Universidad Nacional del Sur (UNS)-CONICET
Av. Alem 1253
8000 Bahía Blanca, Argentina

Email: mredondo@criba.edu.ar

Bernhard Keller
UFR de Mathématiques, Case 7012
Université Paris Cité
Bâtiment Sophie Germain
8 place Aurélie Nemours
75013 Paris, France

E-mail: bernhard.keller@imj-prg.fr

Andrea Solotar
Departamento de Matemática
Universidad de Buenos Aires
Facultad de Ciencias Exactas y Naturales
Ciudad Universitaria, Pabellón I
1428 Buenos Aires, Argentina

E-mail: asolotar@dm.uba.ar

Mathematics Subject Classification 2020: 16-06 (primary); 16G10, 16E35, 18G25 (secondary)

Keywords: representation of algebras, relative homological algebra, Auslander–Reiten theory, derived equivalences, dg categories, mutation

ISBN 978-3-98547-083-9, eISBN 978-3-98547-583-4, DOI 10.4171/ECR/21

Bibliographic information published by the Deutsche Nationalbibliothek
The Deutsche Nationalbibliothek lists this publication in the Deutsche Nationalbibliografie;
detailed bibliographic data are available on the Internet at <http://dnb.dnb.de>.

Published by EMS Press, an imprint of the
European Mathematical Society – EMS – Publishing House GmbH
Institut für Mathematik
Technische Universität Berlin
Straße des 17. Juni 136
10623 Berlin, Germany
Email: info@ems.press
<https://ems.press>

© 2025 EMS Press

Typeset by Fernando Gómez, Instituto de Matemática (INMABB), Universidad Nacional del Sur (UNS)-CONICET, Bahía Blanca, Argentina

Printed in Germany
♾ Printed on acid free paper