

# CONTEMPORARY MATHEMATICS

483

## Algebras, Representations and Applications

Conference in Honour of Ivan Shestakov's 60th Birthday  
August 26–September 1, 2007  
Maresias, Brazil

Vyacheslav Futorny  
Victor Kac  
Iryna Kashuba  
Efim Zelmanov  
Editors



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## Preface

The conference “Algebras, Representations and Applications” was held in Marelias, Brazil on August 26 - September 1, 2007. It had 124 participants from 23 countries. The conference was organized by the Department of Mathematics of the University of São Paulo to celebrate the 60th birthday of Ivan Shestakov.

Ivan Pavlovich Shestakov was born in a small village in Eastern Siberia. He distinguished himself early in the mathematical olympiads and as a teenager was invited to the special physical and mathematical boarding school at the Academic Town of Novosibirsk. His masters thesis “On a Class of Non-commutative Jordan Ring” was awarded the Medal of the Academy of Science of USSR for students. Soon after having obtained the BC and PhD degrees at the Novosibirsk State University under the supervision of A.I. Shirshov and K.A. Zhevlakov he became a leading force in the area of nonassociative algebra and carried the torch of the Novosibirsk Nonassociative School.

From 1993 to 1998 Ivan held visiting positions at the Universities of Oviedo and Logroño in Spain. In 1999 he accepted a position of Professor Titular at the University of São Paulo and moved to Brazil.

In 2002 Ivan Shestakov and his former student Ualbai Umirbaev proved the long standing Nagata Conjecture on the existence of wild automorphisms in polynomial algebras. For this remarkable work the authors were awarded the Moore prize of the AMS.

This volume contains selected papers contributed by the participants in the conference. We gratefully acknowledge that the conference would not be possible without the generous financial support from CAPES, CNPq, FAPESP, Instituto Millenium and the Institute of Mathematics and Statistics of the University of São Paulo.

Our special thanks are to Christine Thivierge of the AMS for her invaluable help during the preparation of this volume and to many anonymous referees whose deep remarks greatly improved the manuscripts.

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This volume contains contributions from the conference on “Algebras, Representations and Applications” (Mareias, Brazil, August 26–September 1, 2007), in honor of Ivan Shestakov’s 60th birthday.

This book will be of interest to graduate students and researchers working in the theory of Lie and Jordan algebras and superalgebras and their representations, Hopf algebras, Poisson algebras, quantum groups, group rings and other topics.

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