

Polynomial Identities in Algebras. II

International Workshop at Atlantic Algebra Centre

September 2 - 6, 2011

International workshop “Polynomial Identities in Algebras. II” is organized by Atlantic Algebra Centre and financially supported by Atlantic Association for Research in Mathematical Sciences and Memorial University of Newfoundland. The dates of the workshop are September 2 - 6, 2011. The workshop will be held at the main campus of Memorial University of Newfoundland in St. John’s, NL, Canada.

The first workshop under the same title was held at Memorial University of Newfoundland in August - September 2002. Since then the theory of Polynomial identities in Algebra has experienced a strong development. Some problems have been solved, among them the reputed problem of the exponentiality of the growth of identities in associative and Lie algebras and superalgebras. New methods have been introduced, in particular, the methods developed in the theory of group gradings of associative, Lie and Jordan algebras. In addition to traditional combinatorial methods, people working on polynomial identities make more frequent use of the Representation Theory, the Theory of Hopf Algebras, and techniques involving computers.

Several monographs and surveys have been published, including “Polynomial Identity Rings” by V. Drensky and E. Formanek (Springer, 2004), “Polynomial Identities and Asymptotic Methods” by A. Giambruno and M. Zaicev (AMS Mathematical Surveys and Monograph Series, Volume 122, 2005) and “Computational Aspects of Polynomial Identities” by A. Kanel-Belov and L. Rowen (A.K.Peters, Ltd, 2005).

The aim of this workshop is to survey the main achievements in the area for the last 9 years, discuss the current progress and to determine future directions and outstanding problems.

The list of the main speakers is still in progress but the following people have agreed to speak:

1. Vesselin Drensky (Institute of Mathematics, Bulgarian Academy of Sciences, Bulgaria)
2. Antonio Giambruno (University of Palermo, Italy)
3. Amitai Regev (Weizmann Institute of Science, Israel)
4. Mikhail Zaicev (Moscow State University, Russia)

It is expected that each of the invited speakers will give two 1-hour lectures. In addition, there will be a number of 40- and 20-minute contributed research talks. The total number of participants is expected to be 25 - 30 people from Canada, USA, Brazil, Bulgaria, France, Israel, Italy, Russia and Spain.

On one of the days (most probably, September 4) we plan a sightseeing tour.

We plan to publish Proceedings of the workshop as a special issue of a research journal, as we did with two of our previous workshops in the past.

For more information about AAC visit our web site at <http://www.mun.ca/aac>
For any questions, including the financial support, please write at aac (at) mun.ca.

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