

Preface

The Workshop on Geometric Methods in Physics, nowadays well known under the colloquial name of the “Białowieża Workshop”, is an annual conference organized by the Department of Mathematical Physics at the Faculty of Mathematics and Computer Science of the University of Białystok in Poland. The idea of the conference is to bring together mathematical physicists, mathematicians, and physicists to discuss in a mathematically precise way new developments and ideas which are of relevance to theoretical physics, both on its classical and quantum sides.

By its very nature, the scope of the topics discussed and the mathematical tools presented is very wide. It includes descriptions of non-commutative systems, completely integrable systems, quantization, groups, supergroups and supersymmetry, quantum groups, and many more.

The participation in the Workshop is open to every scientist and this makes it truly international. As every year, also this year, there were participants from almost all continents and many countries.

Białowieża, the traditional site of the Workshop, is a small village in the east of Poland at the border with Belarus. Białowieża is a place of remarkable unspoiled beauty. There the National Park with remnants of Europe’s last primeval forest and the European bison reserve are of unique character. The natural surroundings help to create a friendly atmosphere for formal and informal discussions and collaboration.

The Workshop in 2014, as in the previous years, was followed by the School on Geometry and Physics. It consisted of several mini-courses by top experts aimed mainly at young researchers and advanced students with the intention to help them to enter current research topics.

The organizers of the Workshop gratefully acknowledge the financial support from the University of Białystok and the Belgian Science Policy Office (BELSPO), IAP Grant P7/18 DYGEST.

Finally, we thank heartily the graduate students and young researchers from the University of Białystok for their indispensable help in the daily running of the Workshop.

The Editors

February 2015

Geometric Methods in Physics

XXXIII Workshop, Białowieża, Poland, June 29 – July 5,
2014

Kielanowski, P.; Bieliavsky, P.; Odziejewicz, A.;

Schlichenmaier, M.; Voronov, T. (Eds.)

2015, IX, 326 p. 11 illus., 1 illus. in color., Hardcover

ISBN: 978-3-319-18211-7

A product of Birkhäuser Basel