

PREFACE

The XXV Workshop on Geometric Methods in Physics was held in Białowieża (Poland), on July 2–8, 2006. Some 100 physicists and mathematicians from all over the world participated in the event. During the conference there were 15 plenary lectures and some 40 contributed talks of participants which were organized for the first time in two parallel sessions.

The discussions at the workshop were focused on the following subjects: coherent state methods, deformation quantization, differential operators, geometrical methods in cosmology, infinite dimensional Lie groups and algebras, integrable systems, Lie groupoids and algebroids, noncommutative geometry, Poisson geometry, quantum groups and time asymmetric quantum theory.

The present volume contains a selection of the plenary talks and the contributions that were positively refereed. The contents of the volume well represents the main topics of the workshop and we hope that it will be a useful reference for the noncommutative geometry, Poisson geometry, time asymmetric quantum theory and some special topics of quantum field theory.

Last but not least let us mention the outstanding participant of our workshop – **Martin Kruskal**. We still remember his beautiful lecture on *Surreal numbers* and his lively reactions during the talks. It was very sad when we learned that he passed away at the end of 2006.

The XXV Workshop continued the tradition established by its predecessors: the nice collegial atmosphere, an easy interaction between participants, the true spirit of academic exchange and, of course, the high scientific level.

Arno Bohm
Piotr Kielanowski
Ivailo Mladenov
Anatol Odziejewicz
Martin Schlichenmaier
Theodore Voronov