PREFACE

This volume collects the papers presented at the *11th Workshop on Noncommutative Harmonic Analysis with Applications to Probability*, held in Będlewo, Poland, 17–23 August 2008. All the papers were refereed. Over 70 mathematicians and physical mathematicians participated in the Workshop, presenting lectures on the following main topics:

1. Free probability, random matrices and relations to other deformed models of probability;

2. Quantum groups and connections with models of quantum probability;

3. Quantum white noise and infinite dimensional analysis;

4. Noncommutative harmonic analysis with applications to noncommutative probability;

5. Quantum information and quantum entropy;

6. Quantum dynamical semigroups and Lévy processes;

7. Positive definite functions on groups;

8. Classical and noncommutative Markov processes;

9. Asymptotic spectral analysis of graphs;

10. Orthogonal polynomials;

11. Asymptotic representation theory.

Special thanks go to all the speakers of the Workshop. In particular, we appreciate very much the special invited introductory lectures given by Narutaka Ozawa "Why Herz-Schur multipliers are important?", by Ryszard Szwarc "Orthogonal polynomials" and by Akihito Hora "Harmonic analysis on symmetric groups and branching graphs.".

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