STOCHASTIC MODELS IN BIOLOGICAL SCIENCES BANACH CENTER PUBLICATIONS, VOLUME 80 INSTITUTE OF MATHEMATICS POLISH ACADEMY OF SCIENCES WARSZAWA 2008

SCIENTIFIC COMMITTEE

ELLEN BAAKE (Bielefeld University)
ANTON BOVIER (WIAS, Berlin)
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CHRISTIAN MAES (Katholieke Universiteit Leuven)
JACEK MIĘKISZ (University of Warsaw) — chair
PIOTR POKAROWSKI (University of Warsaw)

LOCAL ORGANIZERS

Jacek Miękisz Institute of Applied Mathematics University of Warsaw

MICHAŁ KOMOROWSKI (University of Warsaw) ANETA MIĘKISZ (University of Warsaw) PIOTR POKAROWSKI (University of Warsaw) BARTEK WILCZYŃSKI (Polish Academy of Sciences)

INVITED SPEAKERS

Molecular motors:

- ERWIN FREY, Ludwig-Maximilians-Universität München
- Anatoly Kolomeisky, Rice University
- Reinhard Lipowsky, Max Planck Institute of Colloids and Interfaces, Potsdam

Genetic regulatory networks:

- Ofer Biham, Hebrew University
- Andrzej Kierzek, University of Surrey
- Marek Kimmel, Rice University

Evolutionary game theory:

- JENS CHRISTIAN CLAUSSEN, Christian-Albrechts-Universität Kiel
- ULF DIECKMANN, International Institute for Applied Systems Analysis, Laxenburg
- Josef Hofbauer, University College London
- György Szabó, Research Institute for Technical Physics and Material Science, Budapest

Evolutionary ecology:

- Alison Etheridge, University of Oxford
- SIMON LEVIN, Princeton University
- MIROSŁAW DUDEK, Zielona Góra University
- RYSZARD RUDNICKI, Polish Academy of Sciences

Population genetics:

- Ellen Baake, Bielefeld University
- MICHAEL BAAKE, Bielefeld University
- Adam Bobrowski, Polish Academy of Sciences
- Paul Higgs, McMaster University
- John Wakeley, Harvard University

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- 1. Krzysztof Argasiński, Department of Environmental Sciences, Jagiellonian University, Cracow, Poland
- 2. Ellen Baake, Department of Biomathematics and Theoretical Bioinformatics, Bielefeld University, Bielefeld, Germany
- 3. MICHAEL BAAKE, Faculty of Mathematics, Bielefeld University, Bielefeld, Germany
- 4. Wojciech Bartoszek, Department of Mathematics, Gdańsk University of Technology, Gdańsk, Poland
- 5. Przemysław Biecek, Institute of Genetics and Microbiology, Wrocław University, Wrocław, Poland
- 6. Ofer Biham, Racah Institute of Physics, Hebrew University, Jerusalem, Israel
- 7. Matthias Birkner, Weierstrass Institute for Applied Analysis and Stochastics, Berlin, Germany
- 8. Marcelina Borcz, Faculty of Mathematics and Computer Science, Nicolaus Copernicus University, Toruń, Poland
- 9. Tomasz Borowik, Institute of Physics, Wrocław University of Technology, Wrocław, Poland
- 10. KATARZYNA BOŃKOWSKA, Institute of Genetics and Microbiology, Wrocław University, Wrocław, Poland
- 11. ENRICO CARLON, École Polytechnique Universitaire de Lille and Interdisciplinary Research Institute, Lille, France
- 12. Jens Christian Claussen, Theoretical Physics + Astrophysics, University of Kiel, Kiel, Germany
- 13. ULF DIECKMANN, International Institute for Applied Systems Analysis, Laxenburg, Austria
- 14. Andrzej Drzewiński, Department of Physics, Częstochowa University of Technology, Częstochowa, Poland
- 15. MIROSŁAW DUDEK, Institute of Physics, University of Zielona Góra, Zielona Góra, Poland
- 16. ALISON ETHERIDGE, Magdalen College, University of Oxford, Oxford, UK

- 17. ERWIN FREY, Statistical and Biological Physics, Ludwig-Maximilians-Universität, Münich, Germany
- NATALYA GOLOVCHAK, Biological Faculty, Ivan Franko National University of Lviv, Lviv, Ukraine
- 19. Beata Hat, Institute of Fundamental Technological Research, Polish Academy of Sciences, Warsaw, Poland
- Paul Higgs, Department of Physics and Astronomy, McMaster University, Hamilton, Canada
- 21. Josef Hofbauer, Department of Mathematics, University College London, London, UK
- 22. Rafał Hrynyk, Institute of Physics, Wrocław University of Technology, Wrocław, Poland
- 23. Andrzej Kierzek, SBMS, University of Surrey, Guildford, UK
- 24. Marek Kimmel, Department of Statistics, Rice University, Houston, USA
- 25. Galina Kleveta, Biological Faculty, Ivan Franko National University of Lviv, Lviv, Ukraine
- 26. Rafał Kluszczyński, Faculty of Mathematics and Computer Science, Nicolaus Copernicus University, Toruń, Poland
- 27. Anatoly Kolomeisky, Department of Chemistry, Rice University, Houston, USA
- 28. MICHAL KOMOROWSKI, Institute of Applied Mathematics, Warsaw University, Warsaw, Poland
- ROMAN KOTECKÝ, Department of Theoretical Physics, Charles University, Prague, Czech Republic
- 30. Simon Levin, Department of Ecology and Evolutionary Biology, Princeton University, Princeton, USA
- 31. Tomasz Lipniacki, Institute of Fundamental Technological Research, Polish Academy of Sciences, Warsaw, Poland
- 32. Reinhard Lipowsky, Max Planck Institute of Colloids and Interfaces, Potsdam, Germany
- 33. FLORIAN LIPSMEIER, Faculty of Technology, Bielefeld University, Bielefeld, Germany
- 34. Christian Maes, Instituut voor Theoretische Fysica, Katholieke Universiteit Leuven, Leuven, Belgium
- 35. Anna Marciniak, Institute of Applied Mathematics, University of Heidelberg, Heidelberg, Germany
- 36. Jacek Miękisz, Institute of Applied Mathematics, University of Warsaw, Warsaw, Poland
- 37. MAURO MOBILIA, Arnold Sommerfeld Center for Theoretical Physics, Ludwig-Maximilians-Universität, Münich, Germany

- 38. Robert Mroczkowski, Faculty of Mathematics and Computer Science, Nicolaus Copernicus University, Toruń, Poland
- 39. SZYMON NIEWIECZERZAŁ, Institute of Physics, Polish Academy of Sciences, Warsaw, Poland
- 40. Joanna Olesiak, Department of Chemistry, Wrocław University of Technology, Wrocław, Poland
- 41. Grzegorz Paździor, Institute of Physics, Wrocław University of Technology, Wrocław, Poland
- 42. FILIP PIĘKNIEWSKI, Faculty of Mathematics and Computer Science, Nicolaus Copernicus University, Toruń, Poland
- 43. PIOTR POKAROWSKI, Institute of Applied Mathematics, University of Warsaw, Warsaw, Poland
- 44. Wojciech Puławski, Institute of Physics, Polish Academy of Sciences, Warsaw, Poland
- 45. Tobias Reichenbach, Arnold Sommerfeld Center for Theoretical Physics, Ludwig-Maximilians-Universität, Münich, Germany
- 46. SZYMON ROGOZIŃSKI, Institute of Theoretical Physics, University of Silesia, Katowice, Poland
- 47. Ryszard Rudnicki, Institute of Mathematics, Polish Academy of Sciences, Katowice, Poland
- 48. Tatiana Ryabukha, Institute of Mathematics, Ukrainian National Academy of Sciences, Kiev, Ukraine
- 49. Leszek Rybicki, Faculty of Mathematics and Computer Science, Nicolaus Copernicus University, Toruń, Poland
- 50. VIACHESLAV SHTYK, Institute of Mathematics, Ukrainian National Academy of Sciences, Kiev, Ukraine
- 51. MATTHIAS STEINRUECKEN, Faculty of Technology, Bielefeld University, Bielefeld, Germany
- 52. Erik van der Straeten, Department of Physics, Antwerp University, Antwerp, Belgium
- 53. Christina Surulescu, Institute of Applied Analysis and Numerical Simulation, University of Stuttgart, Stuttgart, Germany
- 54. Joanna Sułkowska, Institute of Physics, Polish Academy of Sciences, Warsaw, Poland
- 55. György Szabó, Research Institute for Technical Physics and Material Science, Budapest, Hungary
- Janusz Szwabiński, Institute of Theoretical Physics, Wrocław University, Wrocław, Poland

- 57. Antonina Tarnovska, Biological Faculty, Ivan Franko National University of Lviv, Lviv, Ukraine
- 58. Angelo Valleriani, Max Planck Institute of Colloids and Interfaces, Potsdam, Germany
- JOHN WAKELEY, Department of Organismic and Evolutionary Biology, Harvard University, Cambridge, USA
- 60. Radek Wieczorek, Institute of Mathematics, Polish Academy of Sciences, Katowice, Poland
- 61. Bartek Wilczyński, Institute of Mathematics, Polish Academy of Sciences, Warsaw, Poland
- 62. Ryszard Wojnar, Institute of Fundamental Technological Research, Polish Academy of Sciences, Warsaw, Poland
- 63. Paweł Wykrzykowski, Faculty of Mathematics and Computer Science, Nicolaus Copernicus University, Toruń, Poland
- 64. Samuel Zajíček, Center for Theoretical Study, Prague, Czech Republic