

VIII School on Geometry and Physics

24 June – 28 June 2019

1. **Andrei DOMRIN** – *Moscow State University, Russia*
Soliton equations and their holomorphic solutions
2. **Gerald GOLDIN** – *Rutgers University, USA*
Diffeomorphism groups in quantum theory and statistical physics
3. **Oscar ROSAS-ORTIZ** – *CINVESTAV, Mexico*
Algebraic approach to position-dependent mass systems in both classical and quantum pictures
Lecture 1. Classical position-dependent mass systems
Lecture 2. Quantum position-dependent mass systems
Lecture 3. General approach: point transformations to generate position dependent mass models
4. **Nikita SLAVNOV** – *Steklov Mathematical Institute, Russia*
Introduction to the algebraic Bethe ansatz
5. **Wojciech SZYMAŃSKI** – *University of Southern Denmark, Denmark*
Noncommutative fiber bundles

LIST OF PARTICIPANTS

1. BARDADYN, Krzysztof
Uniwersytet w Białymstoku
Białystok, POLAND
E-mail : kbardadyn@math.uwb.edu.pl
2. CAMPOBASSO, Luca
Heidelberg University
Łódź, POLAND
E-mail : Lcampobasso@gmail.com
3. CHOŁODOWSKA, Monika
Uniwersytet w Białymstoku
Białystok, POLAND
4. CZYŻYCKI, Tomasz
Uniwersytet w Białymstoku
Białystok, POLAND
E-mail : tomczyk@math.uwb.edu.pl
5. DANOWSKA, Agnieszka
Uniwersytet w Białymstoku
Białystok, POLAND
6. DOBROGOWSKA, Alina
Uniwersytet w Białymstoku
Białystok, POLAND
E-mail : alina.dobrogowska@uwb.edu.pl
7. DOMRIN, Andrei
Moscow State University
Moscow, RUSSIA
E-mail : domrin@mi-ras.ru
8. GOLDIN, Gerald
Rutgers University
New Brunswick, NJ, USA
E-mail : geraldgoldin@dimacs.rutgers.edu
9. GOLIŃSKI, Tomasz
Uniwersytet w Białymstoku
Białystok, POLAND
E-mail : tomaszg@math.uwb.edu.pl
10. GONZÁLEZ, Valeria
Instituto Politécnico Nacional
Mexico City, MEXICO
E-mail : vale_love00i@hotmail.com
11. HARA, Kentaro
Tokyo University of Science
Tokyo, JAPAN
E-mail : j1201091@tone.ne.jp
12. HONG, Jeong Hee
University of Southern Denmark
Odense, DENMARK
E-mail : hongjh@imada.sdu.dk
13. HRIVNÁK, Jiří
Czech Technical University in Prague
Praha, CZECH REPUBLIC
E-mail : jiri.hrivnak@jfifi.cvut.cz
14. JAKIMOWICZ, Grzegorz
Uniwersytet w Białymstoku
Białystok, POLAND
E-mail : g.jakimowicz@uwb.edu.pl
15. JIANG, Shuhan
Max Planck Institute for Mathematics in the Sciences
Leipzig, GERMANY
E-mail : jiang@mis.mpg.de

16. JIMÉNEZ MACÍAS, Pedro Raúl CINVESTAV
Mexico City, MEXICO
E-mail : rjimenez@fis.cinvestav.mx
17. KIELANOWSKI, Piotr CINVESTAV
Mexico City, MEXICO
E-mail : kiel@fis.cinvestav.mx
18. KWAŚNIEWSKI, Bartosz Uniwersytet w Białymstoku
Białystok, POLAND
E-mail : bartoszk@math.uwb.edu.pl
19. MANDAL, Ashis Indian Institute of Technology Kanpur
Kanpur, INDIA
E-mail : amandal@iitk.ac.in
20. NEMEC, Filip Czech Technical University in Prague
Praha, CZECH REPUBLIC
E-mail : nemecfil@fjfi.cvut.cz
21. NOVOTNÝ, Petr Czech Technical University in Prague
Praha, CZECH REPUBLIC
E-mail : petr.novotny@fjfi.cvut.cz
22. ODZIJEWICZ, Anatol Uniwersytet w Białymstoku
Białystok, POLAND
E-mail : aodziejew@uwb.edu.pl
23. ORLOV, Aleksandr Institute of Oceanology / High School of Economics
Moscow, RUSSIA
E-mail : orlovs55@mail.ru
24. OSTASZEWSKA, Urszula Uniwersytet w Białymstoku
Białystok, POLAND
E-mail : uostasze@math.uwb.edu.pl
25. PROROK, Dominik AGH University of Science and Technology
Kraków, POLAND
E-mail : dominik.prorok@gmail.com
26. QUINTANA, Claudia CINVESTAV
Mexico City, MEXICO
E-mail : lquintana@fis.cinvestav.mx
27. ROSAS-ORTIZ, Oscar CINVESTAV
Mexico City, MEXICO
E-mail : orosas@fis.cinvestav.mx
28. SKOUPÝ, Stanislav Czech Technical University in Prague
Praha, CZECH REPUBLIC
E-mail : skoupsta@fjfi.cvut.cz
29. SLAVNOV, Nikita Steklov Mathematical Institute
Moscow, RUSSIA
E-mail : nslavnov@mi-ras.ru
30. SLIŻEWSKA, Aneta Uniwersytet w Białymstoku
Białystok, POLAND
E-mail : anetasl@uwb.edu.pl

31. SZAJEWSKA, Marzena
Uniwersytet w Białymstoku
Białystok, POLAND
E-mail : m.szajewska@math.uwb.edu.pl
32. SZYMAŃSKI, Wojciech
University of Southern Denmark
Odense, DENMARK
E-mail : szymanski@imada.sdu.dk
33. ŻYNDĄ, Tomasz Łukasz
Politechnika Warszawska
Warszawa, POLAND
E-mail : t.zynda@mini.pw.edu.pl

Monday, June 24

LECTURES 09:30–12:40

- 09:30–10:20** *Soliton equations and their holomorphic solutions*
Andrei DOMRIN, Moscow State University, Russia
- 10:20–10:50** Coffee break
- 10:50–11:40** *Introduction to the algebraic Bethe ansatz*
Nikita SLAVNOV, Steklov Mathematical Institute, Russia
- 11:50–12:40** *Noncommutative fiber bundles*
Wojciech SZYMAŃSKI, University of Southern Denmark, Denmark

Tuesday, June 25

LECTURES 09:30–12:40

- 09:30–10:20** *Diffeomorphism groups in quantum theory and statistical physics*
Gerald GOLDIN, Rutgers University, USA
- 10:20–10:50** Coffee break
- 10:50–11:40** *Soliton equations and their holomorphic solutions*
Andrei DOMRIN, Moscow State University, Russia
- 11:50–12:40** *Noncommutative fiber bundles*
Wojciech SZYMAŃSKI, University of Southern Denmark, Denmark

Wednesday, June 26

LECTURES 09:30–12:40

- 09:30–10:20** *Algebraic approach to position-dependent mass systems in both classical and quantum pictures*
Oscar ROSAS-ORTIZ, CINVESTAV, Mexico
- 10:20–10:50** Coffee break
- 10:50–11:40** *Introduction to the algebraic Bethe ansatz*
Nikita SLAVNOV, Steklov Mathematical Institute, Russia
- 11:50–12:40** *Soliton equations and their holomorphic solutions*
Andrei DOMRIN, Moscow State University, Russia

Thursday, June 27

LECTURES 09:30–12:40

- 09:30–10:20** *Introduction to the algebraic Bethe ansatz*
Nikita SLAVNOV, Steklov Mathematical Institute, Russia
- 10:20–10:50** Coffee break
- 10:50–11:40** *Algebraic approach to position-dependent mass systems in both classical and quantum pictures*
Oscar ROSAS-ORTIZ, CINVESTAV, Mexico
- 11:50–12:40** *Diffeomorphism groups in quantum theory and statistical physics*
Gerald GOLDIN, Rutgers University, USA

Friday, June 28

LECTURES 09:30–12:40

- 09:30–10:20** *Diffeomorphism groups in quantum theory and statistical physics*
Gerald GOLDIN, Rutgers University, USA
- 10:20–10:50** Coffee break
- 10:50–11:40** *Algebraic approach to position-dependent mass systems in both classical and quantum pictures*
Oscar ROSAS-ORTIZ, CINVESTAV, Mexico
- 11:50–12:40** *Noncommutative fiber bundles*
Wojciech SZYMAŃSKI, University of Southern Denmark, Denmark

Time after lunch is reserved for informal seminars and discussions with lecturers.