

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

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

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