

«New Trends in Mathematical Physics 2022», November 7-12, online
Steklov Mathematical Institute, Moscow
Preliminary Schedule

	07.11	08.11	09.11	10.11
	Monday	Tuesday	Wednesday	Thursday
09:55–10:00 (MSK) 07:55–08:00 (CET) 01:55–02:00 (NYT) 15:55–16:00 (JST)	Opening			
10:00–10:30 (MSK) 08:00–08:30 (CET) 02:00–02:30 (NYT) 16:00–16:30 (JST)	Accardi	Watanabe	Sakbaev	Katanaev
10:30–11:00 (MSK) 08:30–09:00 (CET) 02:30–03:00 (NYT) 16:30–17:00 (JST)	Trushechkin	Fagnola	Efremova	Malyshev
11:00–11:30 (MSK) 09:00–09:30 (CET) 03:00–03:30 (NYT) 17:00–17:30 (JST)	Anashin	Kozyrev	Burskii	Vedyushkina
11:30–12:00 (MSK) 09:30–10:00 (CET) 03:30–04:00 (NYT) 17:30–18:00 (JST)	Coffee break			
12:00–12:30 (MSK) 10:00–10:30 (CET) 04:00–04:30 (NYT) 18:00–18:30 (JST)	Zelenov	Boukas	Capozziello	Dragovich
12:30–13:00 (MSK) 10:30–11:00 (CET) 04:30–05:00 (NYT) 18:30–19:00 (JST)		Poletti	Calcagni	Pozdeeva
13:00–13:30 (MSK) 11:00–11:30 (CET) 05:00–05:30 (NYT) 19:00–19:30 (JST)	Dobrokhotov	Modi	Vernov	Dimitrijevic
13:30–14:30 (MSK) 11:30–12:30 (CET) 05:30–06:30 (NYT) 19:30–20:30 (JST)	Lunch			
14:30–15:00 (MSK) 12:30–13:00 (CET) 06:30–07:00 (NYT) 20:30–21:00 (JST)	Kuksin	Amosov	Holevo	Cao
15:00–15:30 (MSK) 13:00–13:30 (CET) 07:00–07:30 (NYT) 21:00–21:30 (JST)	Zharinov	Rastegin	Sinayskiy	Ivanchenko

15:30–16:00 (MSK) 13:30–14:00 (CET) 07:30–08:00 (NYT) 21:30–22:00 (JST)	Korepin	Thingna	Volkov	Ilyn
16:00–16:30 (MSK) 14:00–14:30 (CET) 08:00–08:30 (NYT) 22:00–22:30 (JST)	Coffee break			
16:30–17:00 (MSK) 14:30–15:00 (CET) 08:30–09:00 (NYT) 22:30–23:00 (JST)	Missarov	Merkli	Barra	Vacchini
17:00–17:30 (MSK) 15:00–15:30 (CET) 09:00–09:30 (NYT) 23:00–23:30 (JST)	Mukhamedov	Rivas	Cavina	Ermakov
17:30–18:00 (MSK) 15:30–16:00 (CET) 09:30–10:00 (NYT) 23:30–00:00 (JST)	Digernes	Vidiella-Barranco	Magnot	Chuprikov
18:00–18:30 (MSK) 16:00–16:30 (CET) 10:00–10:30 (NYT) 00:00–00:30 (JST)	Rozikov	Zuniga-Gallindo	Dolgopolov	Basharov
18:30–19:00 (MSK) 16:30–17:00 (CET) 10:30–11:00 (NYT) 00:30–01:00 (JST)		Cattaneo	Gough	18:30–18:50 (MSK) Petrukhanov
				18:50–19:20 (MSK) Winter

«New Trends in Mathematical Physics 2022», November 7-12, online
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	11.11		12.11
	Friday		Saturday
10:00–10:30 (MSK) 08:00–08:30 (CET) 02:00–02:30 (NYT) 16:00–16:30 (JST)	Volovich		10:00–10:30 (MSK) 08:00–08:30 (CET) 02:00–02:30 (NYT) 16:00–16:30 (JST) Zagrebnov
10:30–11:00 (MSK) 08:30–09:00 (CET) 02:30–03:00 (NYT) 16:30–17:00 (JST)	Song He		10:30–11:00 (MSK) 08:30–09:00 (CET) 02:30–03:00 (NYT) 16:30–17:00 (JST) Sukochev, Zanin
11:00–11:30 (MSK) 09:00–09:30 (CET) 03:00–03:30 (NYT) 17:00–17:30 (JST)	Fu-Wen Shu		11:00–11:30 (MSK) 09:00–09:30 (CET) 03:00–03:30 (NYT) 17:00–17:30 (JST) Bikchentaev
11:30–11:50 (MSK) 09:30–09:50 (CET) 03:30–03:50 (NYT) 17:30–17:50 (JST)	Coffee break		11:30–12:00 (MSK) 09:30–10:00 (CET) 03:30–04:00 (NYT) 17:30–18:00 (JST) Coffee break
11:50–12:10 (MSK) 09:50–10:10 (CET) 03:50–04:10 (NYT) 17:50–18:10 (JST)	Slepov		12:00–12:30 (MSK) 10:00–10:30 (CET) 04:00–04:30 (NYT) 18:00–18:30 (JST) Shamarov
12:10–12:30 (MSK) 10:10–10:30 (CET) 04:10–04:30 (NYT) 18:10–18:30 (JST)	Usova		12:30–13:00 (MSK) 10:30–11:00 (CET) 04:30–05:00 (NYT) 18:30–19:00 (JST) Teretenkov
12:30–12:50 (MSK) 10:30–10:50 (CET) 04:30–04:50 (NYT) 18:30–18:50 (JST)	Yadav		13:00–13:30 (MSK) 11:00–11:30 (CET) 05:00–05:30 (NYT) 19:00–19:30 (JST) Lychkovskiy
12:50–13:10 (MSK) 10:50–11:10 (CET) 04:50–05:10 (NYT) 18:50–19:10 (JST)	Stepanenko		13:30–14:30 (MSK) 11:30–12:30 (CET) 05:30–06:30 (NYT) 19:30–20:30 (JST) Lunch
13:10–13:30 (MSK) 11:10–11:30 (CET) 05:10–05:30 (NYT) 19:10–19:30 (JST)	Rusalev		14:30–15:00 (MSK) 12:30–13:00 (CET) 06:30–07:00 (NYT) 20:30–21:00 (JST) Latune
13:30–13:50 (MSK) 11:30–11:50 (CET) 05:30–05:50 (NYT) 19:30–19:50 (JST)	Belokon		15:00–15:30 (MSK) 13:00–13:30 (CET) 07:00–07:30 (NYT) 21:00–21:30 (JST) Fedorov

13:50–14:10 (MSK) 11:50–12:10 (CET) 05:50–06:10 (NYT) 19:50–20:10 (JST)	Pushkarev		15:30–16:00 (MSK) 13:30–14:00 (CET) 07:30–08:00 (NYT) 21:30–22:00 (JST)	Luchnikov
14:10–14:30 (MSK) 12:10–12:30 (CET) 06:10–06:30 (NYT) 20:10–20:30 (JST)	Lunch		16:00–16:30 (MSK) 14:00–14:30 (CET) 08:00–08:30 (NYT) 22:00–22:30 (JST)	Coffee break
14:30–15:00 (MSK) 12:30–13:00 (CET) 06:30–07:00 (NYT) 20:30–21:00 (JST)	Khramtsov		16:30–17:00 (MSK) 14:30–15:00 (CET) 08:30–09:00 (NYT) 22:30–23:00 (JST)	Przhiyalkovsky
15:00–15:30 (MSK) 13:00–13:30 (CET) 07:00–07:30 (NYT) 21:00–21:30 (JST)	Ageev		17:00–17:30 (MSK) 15:00–15:30 (CET) 09:00–09:30 (NYT) 23:00–23:30 (JST)	Mikhailov
15:30–16:00 (MSK) 13:30–14:00 (CET) 07:30–08:00 (NYT) 21:30–22:00 (JST)	Shavgulidze		17:30–18:00 (MSK) 15:30–16:00 (CET) 09:30–10:00 (NYT) 23:30–00:00 (JST)	Turilova
16:00–16:30 (MSK) 14:00–14:30 (CET) 08:00–08:30 (NYT) 22:00–22:30 (JST)	Coffee break		18:00–18:30 (MSK) 16:00–16:30 (CET) 10:00–10:30 (NYT) 00:00–00:30 (JST)	Morzhin
16:30–17:00 (MSK) 14:30–15:00 (CET) 08:30–09:00 (NYT) 22:30–23:00 (JST)	Koshelev		18:30–19:00 (MSK) 16:30–17:00 (CET) 10:30–11:00 (NYT) 00:30–01:00 (JST)	Pechen
17:00–17:30 (MSK) 15:00–15:30 (CET) 09:00–09:30 (NYT) 23:00–23:30 (JST)	Buoninfante			
17:30–18:00 (MSK) 15:30–16:00 (CET) 09:30–10:00 (NYT) 23:30–00:00 (JST)	Aref'eva			
18:00–18:30 (MSK) 16:00–16:30 (CET) 10:00–10:30 (NYT) 00:00–00:30 (JST)	Berezin			
18:30–19:00 (MSK) 16:30–17:00 (CET) 10:30–11:00 (NYT) 00:30–01:00 (JST)	Frolov			

New Trends in Mathematical Physics
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Program

1. Accardi Luigi

University of Roma Tor Vergata, Italy

A unified approach to classical and quantum Hidden Markov processes

2. Ageev Dmitry

Steklov Mathematical Institute, Russia

Shadows and shapes of entanglement islands

3. Amosov Grigory

Steklov Mathematical Institute, Russia

On the construction of measurement channels and quantum tomography

4. Anashin Vladimir

Moscow State University, Russia

On the causality in quantum theory with a minimal scale length

5. Aref'eva Irina

Steklov Mathematical Institute, Russia

Complete evaporation of black holes near extremality

6. Barra Felipe

Universidad de Chile, Santiago, Chile

Collision-induced decoherence and thermalization

7. Basharov Askhat

National Research Center "Kurchatov Institute", Russia

Open quantum oscillators' system in terms of the algebraic perturbation theory and SDEs

8. Belokon Aleksandr

Steklov Mathematical Institute, Russia

Entanglement entropy in de Sitter spacetime

9. Berezin Victor

Institute for Nuclear Research of RAS, Russia

Some notes on the Weyl geometry, particle production and induced gravity

10. Bikchentaev Airat

Kazan Federal University, Russia

Commutators in C^* -algebras and traces

11. Buoninfante Luca

Nordic Institute for Theoretical Physics, Sweden

Generalized ghost-free propagators in nonlocal field theories

12. Burskii Vladimir

Moscow Institute of Physics and Technology, Russia

Some new research methods of boundary value problems for general PDEs

13. Boukas Andreas

Hellenic Open University, Greece

On the Diagonalizability and Factorizability of Quadratic Boson Fields

- 14. Calcagni Gianluca**
Instituto de Estructura de la Materia, Spain
Fractional quantum gravity
- 15. Cao Jianshu**
Massachusetts Institute of Technology, USA
Symmetry in non-equilibrium quantum processes
- 16. Capozziello Salvatore**
University of Naples, Italy
Non-local gravity cosmology
- 17. Cattaneo Marco**
University of Helsinki, Finland
Symmetries in physical dilations of open quantum systems
- 18. Cavina Vasco**
University of Luxembourg, Luxembourg
Energy counting statistics in open quantum systems: a microscopic approach to thermodynamic consistency
- 19. Chuprikov Nikolay**
Tomsk State Pedagogical University, Russia
Restrictions Imposed by the Wave Function on the Results of Particle Momentum Measurements
- 20. Digernes Trond**
Norwegian University of Science and Technology, Norway
In search of a non-Archimedean Schwartz space
- 21. Dimitrijevic Ivan**
University of Belgrade, Serbia
Anisotropic cosmological solutions in nonlocal de Sitter gravity

22. Dobrokhotov Sergey

Ishlinsky Institute for Problems in Mechanics, Russia

Keplerian trajectories and effective asymptotics of some solutions of the Schrodinger equation with a repulsive Coulomb potential.

23. Dolgopolov Mikhail

Samara University, Russia

Holographic interface of heterostructures with 2D Fermi gas and activation

24. Dragovich Branko

University of Belgrade, Serbia

Nonlocal de Sitter Gravity and Cosmology

25. Efremova Lyudmila

Lobachevsky State University, Russia

Ramified chaotic attractors of smooth geometrically integrable self-maps of a cylinder

26. Ermakov Igor

Steklov Mathematical Institute & Skoltech, Russia

Almost Complete local Revivals in quantum spin systems and delayed disclosure of a secret

27. Fagnola Franco

Polytechnic University of Milan, Italy

On Irreducibility of Gaussian Quantum Markov Semigroups

28. Fedorov Alexey

Russian Quantum Center, Russia

Efficient control for quantum many-body systems

- 29. Gough John**
Aberystwyth University, United Kingdom
Möbius Transformations and Quantum Stochastic Models
- 30. Frolov Valeri**
University of Alberta, Canada
Limiting curvature gravity and the problem of singularities
- 31. Holevo Alexander**
Steklov Mathematical Institute, Russia
Generalizations of logarithmic Sobolev inequality arising from quantum information theory
- 32. He Song**
Center for Theoretical Physics and College of Physics, Jilin University, China & Max Planck Institute for Gravitational Physics, Germany
Probing QCD critical point and induced gravitational wave by black hole physics
- 33. Ilyn Nikolay**
Skolkovo Institute of Science and Technology, Russia
Quantum adiabatic theorem with energy gap regularization
- 34. Ivanchenko Mikhail**
Lobachevsky University, Russia
Quantifying dissipative quantum chaos
- 35. Katanaev Mikhail**
Steklov Mathematical Institute, Russia
Spin distribution for the 't Hooft-Polyakov monopole in the geometric theory of defects

36. Khramtsov Mikhail

Vrije Universiteit Brussel & The International Solvay Institutes, Belgium

Delicate windows into evaporating black holes

37. Korepin Vladimir

C. N. Yang Institute of Theoretical Physics, USA

Number theory and spin chains

38. Koshelev Alexey

Universidade da Beira Interior, Portugal

Stability of analytic infinite derivative theories in curved space-times

39. Kozyrev Sergei

Steklov Mathematical Institute, Russia

Amplification of Quantum Transfer and Quantum Ratchet

40. Kuksin Sergey

Paris Diderot University, France

On the $2/3$ - and $4/5$ -laws of the Kolmogorov theory of turbulence and their rigorous 1d versions

41. Latune Camille

Ecole Normale Supérieure de Lyon, France

Steady state in the regime of ultra strong system-bath coupling and high temperature

42. Luchnikov Ilia

Russian Quantum Center, Russia

Non-Markovian quantum dynamics identification and control

43. Lychkovskiy Oleg

*Skolkovo Institute of Science and Technology & Steklov
Mathematical Institute, Russia*

A refined Eigenstate Thermalisation Hypothesis that
evades known counterexamples

44. Magnot Jean-Pierre

University of Angers, France

On generalized KP hierarchies: well-posedness and
related (t_2, t_3) Zakharov-Shabat equations

45. Malyshev Kirill

*St. Petersburg Department of Steklov Mathematical Institute of
RAS, Russia*

Gauge-translational theory of dislocations with finite-sized
cores and renormalization of elastic moduli

46. Merkli Marco

Memorial University of Newfoundland, Canada

Correlation Decay and Markovianity in Open Systems

47. Mikhailov Andrei

Classical and relativistic functional mechanics

48. Missarov Moukadas

Kazan Federal University, Russia

Transformation of the renormalization group in generalized
fermionic hierarchical model

49. Modi Kavan

Monash University, Australia

Quantum Chaos = Volume-Law Spatiotemporal
Entanglement

50. Morzhin Oleg

Steklov Mathematical Institute, Russia & National University of Science and Technology "MISiS", Russia

On optimization of coherent and incoherent controls in one- and two-qubit open systems

51. Mukhamedov Farrukh

United Arab Emirates University, United Arab Emirates

Non-homogeneous Gibbs measures for the Ising model on the Cayley trees

52. Pechen Alexander

Steklov Mathematical Institute, Russia & National University of Science and Technology "MISiS", Russia

On controllability of some quantum systems

53. Petrukhanov Vadim

Steklov Mathematical Institute, Russia & National University of Science and Technology "MISiS", Russia

Optimization of state transfer and exact dynamics for the open two-level quantum system.

54. Poletti Damiano

Polytechnic University of Milan, Italy

The decoherence-free subalgebra of Gaussian Quantum Markov Semigroups

55. Pozdeeva Ekaterina

Skobeltsyn Institute of Nuclear Physics, Russia

De Sitter solutions in Einstein-Gauss-Bonnet gravity

56. Przhiyalkovskiy Yan

Kotelnikov Institute of Radioengineering and Electronics of RAS, Russia

Dynamics of open quantum systems in symplectic tomography

57. Pushkarev Vasilii

Steklov Mathematical Institute, Russia

Regular and irregular dynamics after local quenches in massive scalar field theory

58. Rastegin Alexey

Irkutsk State University, Russia

Some applications of equiangular tight frames in quantum information

59. Rivas Angel

Complutense University of Madrid, Spain

Robust nonequilibrium edge currents with and without band topology

60. Rozikov Utkir

Institute of Mathematics, Tashkent, Uzbekistan

Gibbs measures for p-adic Hard-Core model with a countable set of spin values

61. Rusalev Timofei

Steklov Mathematical Institute, Russia

Entanglement Islands and Infrared Anomalies in Schwarzschild Black Hole

62. Sakbaev Vsevolod

Moscow Institute of Physics and Technology, Russia

Invariant measures of infinite dimensional Hamiltonian systems and properties of Koopman groups

- 63. Shamarov Nicolai**
Moscow Institute of Physics and Technology, Russia
On L2-realization of Guichardet infinite Hilbert tensor product and Smolyanov measure
- 64. Shavgulidze Evgeny**
Moscow State University, Russia
Functional Integrals of Quantum 2D Gravity
- 65. Shu Fu-Wen**
Nanchang University, China
Island for one-sided Schwarzschild black hole
- 66. Sinayskiy Ilya**
University of KwaZulu-Natal, South Africa
Quantum Simulation of Markovian and non-Markovian channel addition on NISQ devices and in the Quantum Optics Lab
- 67. Slepov Pavel**
Steklov Mathematical Institute, Russia
Anisotropic holographic models supported by Einstein-dilaton-four-Maxwell action
- 68. Stepanenko Daniil**
Steklov Mathematical Institute, Russia
Schwarzschild Black Holes, Islands and Virasoro algebra
- 69. Sukochev Fëdor, Zanin Dmitriy**
University of New South Wales, Australia
New approach to continuity/smoothness of the spectral shift function
- 70. Teretenkov Alexander**

*Steklov Mathematical Institute & Moscow State University,
Russia*

Hyperprojectors and master equations for quantum dynamical maps

71. Thingna Juzar

University of Massachusetts Lowell, USA

Beyond weak-coupling quantum master equations

72. Trushechkin Anton

Steklov Mathematical Institute, Russia

Derivation of the Bloch-Redfield quantum master equation by Bogoliubov's method and generalization of the Born approximation

73. Turilova Ekaterina

Kazan Federal University, Russia

Transformations preserving the spectral order

74. Usova Marina

Steklov Mathematical Institute, Russia

Holographic RG flows in 3d supergravity and their stability analysis

75. Vacchini Bassano

University of Milan, Italy

Role of quantum divergences in non-Markovian dynamics

76. Vedyushkina Victoria

Moscow State University, Italy

Modeling bifurcations of Liouville foliations of integrable Hamiltonian systems by billiard books

77. Vernov Sergey

Skobeltsyn Institute of Nuclear Physics, Russia
Extensions of the Starobinsky R^2 inflationary model

78. Vidiella-Barranco Antonio

University of Campinas, Brazil
Minimal Environments

79. Volkov Boris

*Moscow Institute of Physics and Technology, Russia & Steklov
Mathematical Institute of Russian Academy of Sciences,
Moscow & National University of Science and Technology
"MISiS", Russia*
Higher order traps in quantum control landscapes

80. Volovich Igor

Steklov Mathematical Institute, Russia
Entanglement in classical mechanics and quantum gravity

81. Watanabe Noboru

*National Institute of Advanced Industrial Science and
Technology, Japan*
Note on Transmitted complexity for Quantum Compound
Systems

82. Winter Andreas

Universitat Autònoma de Barcelona, Spain
Towards p-adic quantum bits and angular momentum
theory via representations of the p-adic special orthogonal
group $SO(3)_p$

83. Yadav Gopal

Indian Institute of Technology Roorkee, India

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of Gravity and Cosmological Islands

84. Zagrebnov Valentin

Institute of Mathematics of Marseille, France

Why do bosons condense?

85. Zelenov Evgeny

Steklov Mathematical Institute, Russia

Coherent states of the p-adic Heisenberg group,
heterodyne measurements and entropy uncertainty relation

86. Zharinov Victor

Steklov Mathematical Institute, Russia

Dynamics of wave packets in the functional mechanics

87. Zuniga-Gallindo Wilson

University of Texas Rio Grande Valley, USA

p-Adic Neural Networks and Quantum Field Theory