

Sunday, June 26

MORNING SESSION 09:00–12:55

Special Session in honour of Felix Berezin

Chairman: A. Stepin

- 09:00–09:15** Opening
- 09:15–09:30** *Some words about the Teacher.*
Anatole M. STEPIN, Moscow State University, Russia
- 09:35–10:30** *Berezin integral and Berezinian: from identities in the Grothendieck ring of the general linear supergroup to the geometry of Batalin–Vilkovisky quantisation.*
Hovhannes KHUDAVERDIAN, University of Manchester, United Kingdom
- 10:30–11:00** Coffee break
- 11:00–11:55** *Geometric methods in representation theory of Lie supergroups.*
Vera SERGANOVA, University of California at Berkeley, USA
- 12:00–12:55** *Generalized complex geometry and supermanifolds.*
Arkady VAINTROB, University of Oregon, USA

AFTERNOON SESSION 14:30–17:20

Special Session in honour of Felix Berezin

Chairman: A. Odesski

- 14:30–15:10** *Berezin's coherent states, symbols and transform revisited.*
Martin SCHLICHENMAIER, Université de Luxembourg, Luxembourg
- 15:15–15:45** *Double Lie algebroids and their global forms.*
Kirill MACKENZIE, University of Sheffield, United Kingdom
- 15:45–16:15** Coffee break
- 16:15–16:45** *BRST complex for general dynamics.*
Simon LYAKHOVICH, Tomsk State University, Russia
- 16:50–17:20** *Graded geometry and a new class of algebras arising from "non-linear" Lie algebroids.*
Theodore VORONOV, University of Manchester, United Kingdom

Monday, June 27

MORNING SESSION 09:00–12:50

Special Session in honour of Felix Berezin

Chairman: S. Gindikin

- 09:00–09:55** *Infinitesimal deformations of a formal symplectic groupoid.*
Alexander KARABEGOV, Abilene Christian University, USA
- 10:00–10:55** *Action of $Sp(2n)$ on sheaves.*
Dmitry TAMARKIN, Northwestern University, USA
- 10:55–11:20** Coffee break
- 11:20–12:15** *On stable formality quasi-isomorphisms for Hochschild cochains.*
Vasily DOLGUSHEV, Temple University, USA
- 12:20–12:50** *Operad of little cubes and long knots.*
Victor TURCHIN, Kansas State University, USA

AFTERNOON SESSION 14:30–17:45

Special Session in honour of Felix Berezin

Chairman: S. Lyakhovich

- 14:30–15:00** *Geometry of dual pairs of complex supercurves.*
Jeffrey RABIN, University of California at San Diego, USA
- 15:05–15:35** *Berezin quantization on para-Hermitian symmetric spaces.*
Vladimir MOLCHANOV, Derzhavin Tambov State University, Russia
- 15:35–16:05** Coffee break
- 16:05–16:35** *Cohomological Laplace transform.*
Simon GINDIKIN, Rutgers University, USA
- 16:40–17:10** *Quantum configuration spaces of extended objects, diffeomorphism group representations, and exotic statistics.*
Gerald GOLDIN, Rutgers University, USA
- 17:15–17:45** *Some non-standard aspects of coherent state quantization.*
Syed Twareque ALI, Department of Mathematics and Statistics, Concordia University, Canada

Tuesday, June 28

MORNING SESSION 09:00–13:10

Special Session in honour of Bogdan Mielnik

Chairman: Oscar Rosas-Ortiz

- 09:00–10:00** *Dynamic Casimir effect: A global view.*
Iwo BIAŁYNICKI-BIRULA, Centrum Fizyki Teoretycznej, PAN, Poland
- 10:05–11:00** *Mielnik's achievements on quantum control in Mexico.*
David J. FERNÁNDEZ C., Departamento de Física, Cinvestav, Mexico
- 11:00–11:25** Coffee break
- 11:25–12:20** *The set of quantum states and its shadow.*
Karol ŻYCZKOWSKI, Instytut Fizyki, Uniwersytet Jagielloński, Poland
- 12:25–12:55** *Partial inner product spaces, a unifying language for quantum mechanics.*
Jean-Pierre ANTOINE, Université Catholique de Louvain, Belgium
- 13:00–13:10** *World Anti-Bureaucratic.*
Bogdan MIELNIK, Departamento de Física, Cinvestav, Mexico

AFTERNOON SESSION 1 (Museum) 14:30–18:00

Special Session in honour of Bogdan Mielnik

Chairman: Anatol Odziejewicz

- 14:30–15:25** *Complex Hadamard matrices: Introduction.*
Ingemar BENGTTSSON, Stockholm University, Sweden
- 15:30–16:00** *Time operator on a circle.*
Maciej PRZANOWSKI, Instytut Fizyki, Politechnika Łódzka, Poland
- 16:00–16:20** Coffee break
- 16:20–16:50** *Groups and semigroups in quantum mechanics.*
Arno BOHM, Department of Physics, University of Texas at Austin, USA
- 16:55–17:25** *Canonical association of decay semigroups with quantum mechanical scattering systems.*
Hellmut BAUMGÄRTEL, University of Potsdam, Germany
- 17:30–18:00** *Reflection time delay for rectangular potentials in a semi-harmonic background.*
Oscar ROSAS-ORTIZ, Departamento de Física, Cinvestav, Mexico

AFTERNOON SESSION 2 (Governor's House) 14:30–17:15

Chairman: Ivaïlo Mladenov

- 14:30–15:00** *Natural bi-integrable systems on the Riemannian manifolds.*
Andrey TSIGANOV, St. Petersburg State University, Russia
- 15:05–15:35** *Reduction restrictions of Darboux and Laplace transformations for the Goursat equation.*
Sergey LEBLE, Politechnika Gdańska, Poland
- 15:40–16:00** *On maximal \mathbf{R} -split tori invariant under an involution.*
Catherine BUELL, North Carolina State University, USA
- 16:00–16:30** Coffee break
- 16:30–16:50** *Physically acceptable solutions of an eigenvalue equation in deformation quantization.*
Jaromir TOSIEK, Instytut Fizyki, Politechnika Łódzka, Poland
- 16:55–17:15** *Poisson Lie T -plurality and supermanifolds.*
Vojtech STEPAN, České Vysoké Učení Technické v Praze, Czech Republic

Wednesday, June 29

MORNING SESSION 09:00–13:00

Special Session in honour of S. Lech Woronowicz

Chairman: Jerzy Kijowski

- 09:00–10:00** *On Woronowicz approach to quantum group theory.*
Wiesław PUSZ, Katedra Metod Matematycznych Fizyki, Uniwersytet Warszawski, Poland
- 10:05–11:00** *Twisting adjoint module algebras and non-commutative geometry.*
Petr KULISH, St. Petersburg Department of the Steklov Mathematical Institute, Russia
- 11:00–11:30** Coffee break
- 11:30–12:25** *Generalized Gaussian processes, second quantization of Yang–Baxter type with applications to von Neumann algebras and free probability.*
Marek BOŻEJKO, Instytut Matematyczny, Uniwersytet Wrocławski, Poland
- 12:30–13:00** *Homomorphisms of quantum groups.*
Sutanu ROY, Georg-August-Universität Göttingen, Germany

AFTERNOON SESSION 1 (Museum) 14:30–17:35

Special Session in honour of S. Lech Woronowicz

Chairman: Petr Kulish

- 14:30–15:00** *Fractional Fourier transform and symplectic quantization.*
Jerzy KIJOWSKI, Centrum Fizyki Teoretycznej, PAN, Poland
- 15:05–15:35** *On a certain approach to quantum homogeneous spaces.*
Paweł KASPRZAK, Katedra Metod Matematycznych Fizyki, Uniwersytet Warszawski, Poland
- 15:35–16:05** Coffee break
- 16:05–16:35** *Unbounded induced $*$ -representations.*
Yuriy SAVCHUK, Universität Leipzig, Germany
- 16:40–17:10** *Cuntz–Krieger uniqueness theorem for C^* -algebras with circle gauge action.*
Bartosz KWAŚNIEWSKI, Instytut Matematyki, Uniwersytet w Białymstoku, Poland
- 17:15–17:35** *Quantum entropy and information geometry based on non-commutative integration.*
Ryszard KOSTECKI, Instytut Fizyki Teoretycznej, Uniwersytet Warszawski, Poland

AFTERNOON SESSION 2 (Governor's House) 14:30–17:20

Chairman: Sara Cruz y Cruz

- 14:30–14:50** *Deformation quantization of cosmological models.*
Francisco J. TURRUBIATES, Escuela Superior de Física y Matemáticas del Instituto Politécnico Nacional, Mexico
- 14:55–15:15** *Topological quantization of free massive bosonic field.*
Gustavo ARCINIEGA, Facultad de Ciencias, UNAM, Mexico
- 15:20–15:40** *Symmetries of the chiral Potts model.*
Teresia MÅNSSON, Royal Institute of Technology, Sweden
- 15:40–16:10** Coffee break
- 16:10–16:30** *The projectivization of conformal models of fibrations determined by the algebra of quaternions.*
Irina KUZMINA, Kazan State University, Russia
- 16:35–16:55** *Geodesic mappings of n -dimensional surfaces of revolution.*
Irena HINTERLEITNER, Vysoké učení technické v Brně, Czech Republic
- 17:00–17:20** *Quantum charged rigid Dirac bubble.*
Ruben CORDERO, Escuela Superior de Física y Matemáticas del Instituto Politécnico Nacional, Mexico

Thursday, June 30

MORNING SESSION 09:00–12:50

Special Session in honour of Felix Berezin

Chairman: Alexander Karabegov

- 09:00–09:55** *Racah operators for representations of groups.*
Rais ISMAGILOV, Bauman Moscow State Technical University, Russia
- 10:00–10:55** *Multivariate characteristic functions and double coset spaces for infinite-dimensional groups.*
Yurii NERETIN, Institute for Theoretical and Experimental Physics, Russia
- 10:55–11:20** Coffee break
- 11:20–12:15** *Singular symplectic reduction and quantization.*
Victor PALAMODOV, Tel Aviv University, Israel
- 12:20–12:50** *Series over Schur functions, interpolation ensembles and $O(2\infty)$ BKP tau-function.*
Alexander ORLOV, Laboratory of Nonlinear Wave Processes, P.P. Shirshov Institute of Oceanology, Russia

AFTERNOON SESSION 1 (Museum) 14:30–17:00

Chairman: Armen Sergeev

- 14:30–15:00** *Lax integrable systems and Knizhnik–Zamolodchikov equation.*
Oleg SHEINMAN, Steklov Mathematical Institute, Russia
- 15:05–15:35** *Integrable $(2+1)$ -dimensional systems of hydrodynamic type.*
Alexandre ODESSKI, Brock University, Canada
- 15:35–16:05** Coffee break
- 16:05–16:35** *Poisson reduction on the space of curves in \mathbf{R}^n .*
Ian MARSHALL, Higher School of Economics, Russia
- 16:40–17:00** *Locally free sheaves on complex supermanifolds.*
Elizaveta VISHNYAKOVA, Ruhr-Universität Bochum, Germany

POSTER SESSION 17:00–18:00

in the hall

AFTERNOON SESSION 2 (Governor's House) 14:30–17:30

Chairman: Ingemar Bengtson

- 14:30–15:00** *Non-Markovian evolution of quantum systems.*
Dariusz CHRUŚCIŃSKI, Uniwersytet Mikołaja Kopernika, Poland
- 15:05–15:25** *Complex Hadamard matrices: A perturbative approach.*
Nuno SA, Universidade dos Acores, Portugal
- 15:30–15:50** *Position-dependent mass systems and coherent states.*
Sara CRUZ Y CRUZ, UPIITA, Instituto Politécnico Nacional, Mexico
- 15:50–16:20** Coffee break
- 16:20–16:40** *Quantum discord for generalized entropies.*
Jacek JURKOWSKI, Uniwersytet Mikołaja Kopernika, Poland
- 16:45–17:05** *On geodesic mappings of special Riemannian spaces.*
Josef MIKEŠ, Univerzita Palackého v Olomouci, Czech Republic
- 17:10–17:30** *Jet approach to superfield quantization.*
Dmitry KANIN, Steklov Mathematical Institute, Russia

Friday, July 1

AFTERNOON SESSION 1 (Museum) 14:30–17:35

Chairman: Andrei Shafarevich

- 14:30–15:25** *Loewner–Kufarev evolution in the universal Grassmannian.*
Alexander VASILIEV, University of Bergen, Norway
- 15:30–16:00** *Discriminant separability and quad-graph integrability.*
Vladimir DRAGOVIĆ, University of Lisbon/Math. Institute SANU Belgrade, Portugal/Serbia
- 16:00–16:30** Coffee break
- 16:30–17:00** *Hidden symmetries and complete integrability in higher dimensional black holes.*
Valeri FROLOV, University of Alberta, Canada
- 17:05–17:35** *Short-time asymptotics of the diffusion semigroups and beyond.*
Stanislav STEPIN, Instytut Matematyki, Uniwersytet w Białymstoku, Poland

AFTERNOON SESSION 2 (Governor's House) 14:30–17:20

Chairman: Norbert Hounkonnou

- 14:30–14:50** *Serret's curves, their generalization and explicit parameterizations.*
Ivãilo MLADENOV, Bulgarian Academy of Sciences, Bulgaria
- 14:55–15:15** *Sub-Riemannian geometry on the group of diffeomorphisms of the circle.*
Erlend GRONG, University of Bergen, Norway
- 15:20–15:40** *Coarea formula for smooth contact mappings of Carnot–Carathéodory spaces.*
Sergey VODOPYANOV, Sobolev Institute of Mathematics, Russia
- 15:40–16:10** Coffee break
- 16:10–16:30** *Rigidity of isometries on complexified Heisenberg group.*
Daria ISANGULOVA, Sobolev Institute of Mathematics, Russia
- 16:35–16:55** *Morse–Sard theorem for Sobolev functions and applications in fluid mechanics.*
Mikhail KOROBKOV, Sobolev Institute of Mathematics, Russia
- 17:00–17:20** *Inversion of the X-ray transform of symmetric tensor fields.*
Aleksander DENISIUK, Uniwersytet Warmińsko–Mazurski, Poland

Saturday, July 2

MORNING SESSION 09:00–12:10

Chairman: Kirill Mackenzie

- 09:00–09:55** *Harmonic spheres conjecture.*
Armen SERGEEV, Steklov Mathematical Institute, Russia
- 10:00–10:30** *Properties of classical Hamiltonian systems and quantum packets on graphs and singular spaces.*
Andrei SHAFAREVICH, Moscow State University, Russia
- 10:30–11:00** Coffee break
- 11:00–11:20** *Classical and quantum evolution on Siegel–Jacobi domains.*
Stefan BERCEANU, “Horia Hulubei” National Institute of Physics and Nuclear Engineering, Romania
- 11:25–11:45** *Polynomial dynamical systems and elliptic curves.*
Elena BUNKOVA, Steklov Mathematical Institute, Russia
- 11:50–12:10** *Deformation quantization of harmonic oscillator in a general noncommutative phase space: Energy spectrum in relevant representations.*
Mahouton Norbert HOUNKONNOU, University of Abomey-Calavi, Benin

AFTERNOON SESSION 14:30–16:30

Chairman: Klaus Bering

- 14:30–14:50** *Two types of E -discretization of tori of compact semisimple Lie groups.*
Jiří HRIVNÁK, České Vysoké Učení Technické v Praze, Czech Republic
- 14:55–15:15** *Graded contractions of representations of Lie algebras.*
Petr NOVOTNÝ, České Vysoké Učení Technické v Praze, Czech Republic
- 15:15–15:45** Coffee break
- 15:45–16:05** *Complex solutions to Painlevé IV equation through SUSY QM.*
David BERMÚDEZ, Departamento de Física, Cinvestav, Mexico
- 16:10–16:30** *Homogeneity bundles.*
Mikołaj ROTKIEWICZ, Uniwersytet Warszawski, Poland