

Friday, July 31

Plenary session – 103

9:00–9:30 P. Exner: YRS OPENING, IUPAP PRIZES

Plenary session – 103

Chair: Michael Loss

9:30–10:30 R. Benguria: ISOPERIMETRIC INEQUALITIES FOR EIGENVALUES OF THE LAPLACIAN

10:30–11:00 Coffee break

Plenary session – 103

Chair: Robert Seiringer

11:00–12:00 A. De Masi: MACROSCOPIC PHENOMENA AND RANDOMNESS

Plenary session – 103

Chair: Raymond Streater

12:15–13:15 R. Werner: TOWARDS A QUANTUM CHURCH-TURING THEOREM

13:15–15:00 Lunch break

Seminar session 1 – 103

Chair: Miloš Zahradník

Seminar session 2 – 115

Chair: Simone Warzel

Seminar session 3 – 111

Chair: Daniel Ueltschi

15:00–15:25 A. Bagrov
N-FIELD APPROACH TO BLACK HOLES PRODUCTION

15:00–15:25 R. Band
COUNTING NODAL DOMAINS ON QUANTUM GRAPHS

15:00–15:25 E. Winterroth
INVARIANT VARIATIONAL PROBLEMS AND BUNDLES OF CARTAN CONNECTIONS

15:30–15:55 M. Bulíček
ON SCALAR HYPERBOLIC LAWS WITH DISCONTINUOUS FLUX

15:30–15:55 I. Oprea
RANDOM GRAPHS AND RANDOM MATRICES: IS THE CONNECTION RANDOM?

15:30–15:55 P. Ambrož
ON THE NUMBER OF FACTORS IN CODINGS OF THREE INTERVAL EXCHANGE

16:00–16:25 M. P. Arciga-Alejandre
OTT-SUDAN-OSTROVSKIY EQUATION ON A HALF-LINE

16:00–16:25 J. Lipovský
RESONANCES FROM PERTURBATIONS OF QUANTUM GRAPHS WITH RATIONALLY RELATED EDGES

16:00–16:25 B. Karmakar
SOME LOCALISATION THEOREM IN ANALYSIS AND CONNECTION WITH SOME MATH PHYSICS PROBLEM

16:25–17:00 Coffee break

Seminar session 1 – 103

Chair: Jani Lukkarinen

Seminar session 2 – 115

Chair: Gady Kozma

17:00–17:25 G. Kells
A DESCRIPTION OF KITAEV'S HONEYCOMB MODEL WITH TORIC-CODE STABILIZERS

17:00–17:25 A. Gábris
OPTIMIZING THE QUANTUM RANDOM WALK SEARCH ALGORITHM ON THE HYPERCUBE

17:30–17:55 V. Dvoeglazov
P, C AND T FOR TRULLY NEUTRAL PARTICLES

17:30–17:55 M. Štefaňák
RECURRENCES IN QUANTUM WALKS

Saturday, August 1

Plenary session – 103

Chair: David Brydges

9:00–10:00 Y. Sinai: RENORMALIZATION GROUP METHOD AND SINGULARITIES OF COMPLEX-VALUED SOLUTIONS OF EQUATIONS OF FLUID-DYNAMICS

Plenary session – 103

Chair: Pavel Exner

10:15–11:15 Wei-Min Wang: RESONANT PERTURBATIONS OF HAMILTONIAN SYSTEMS IN INFINITE DIMENSIONS

11:15–11:45 Coffee break

Plenary session – 103

Chair: Vieri Mastropietro

11:45–12:45 H. Hofer: ANALYTICAL FOUNDATIONS OF SYMPLECTIC FIELD THEORY

12:45–14:30 Lunch break

Seminar session 1 – 103

Chair: Libor Šnobl

Seminar session 2 – 115

Chair: Rupert Frank

Seminar session 3 – 111

Chair: Benjamin Schlein

14:30–14:55 T. Quella
CONFORMAL SUPERSPACE SIGMA-MODELS

14:30–14:55 R. Carlone
THE MOTT'S CONJECTURE

14:30–14:55 M. Palese
NONLINEAR OPTICAL MODELS AND ALGEBRAIC SKELETONS

15:00–15:25 P. Suchanek
4-POINT CORRELATION FUNCTIONS IN 2 DIM N=1 SCFT

15:00–15:25 L. Balková
SCHROEDINGER OPERATORS ASSOCIATED WITH PARRY NUMBERS

15:00–15:25 V. O. Shtyk
ON MEAN-FIELD ASYMPTOTIC OF SOLUTION OF QUANTUM BBGKY HIERARCHY

15:30–15:55 J. Queva
A CONFORMALLY COVARIANT QUANTIZATION OF THE MAXWELL FIELD IN DE SITTER SPACETIME

15:30–15:55 T. Mine
AHARONOV-BOHM SOLENOIDS ON THE HYPERBOLIC PLANE

15:30–15:55 B. Chandrasekhar
UNITARY FERMI GAS: SCALING SYMMETRIES AND EXACT MAP

15:55–16:30 Coffee break

Seminar session 1 – 103

Chair: Wei-Ming Wang

Seminar session 2 – 115

Chair: David Krejčířik

16:30–16:55 E. Shamarova
NAVIER-STOKES EQUATIONS AND FORWARD-BACKWARD SDES ON THE GROUP OF DIFFEOMORPHISMS OF A TORUS

16:30–16:55 P. Siegl
PT-SYMMETRIC MODELS IN CURVED MANIFOLDS

17:00–17:25 M. Tušek
ON A HYDROGEN ATOM IN A THIN SLAB

17:00–17:25 R. H. Parmar
POLYNOMIALS TRANSFORMATIONS AND CONDITIONALLY EXACTLY SOLVABLE POTENTIALS

CANCELLED

Sunday, August 2

General – Břehová 111		General – Clarion lobby	
9:00–16:00	P. Exner + officers: IAMP EC meeting		
		14:00–18:00	Registration
		18:00–19:30	Welcome Cocktail

Monday, August 3

Plenary session – Meridian

9:00–9:30 P. Exner, J. Drahoš: Congress opening

9:30–10:30 P. Exner, B. Nachtergaele, J.P. Solovej: Prize ceremonies

10:30–11:00 Coffee break

Plenary session – Meridian

Chair: Yakov G. Sinai

11:00–12:00 L. Erdős: UNIVERSALITY OF SPECTRAL STATISTICS FOR CERTAIN WIGNER RANDOM MATRICES

Plenary session – Meridian

Chair: Michael Aizenman

12:15–13:15 B. Duplantier: A RIGOROUS PERSPECTIVE ON LIOUVILLE QUANTUM GRAVITY & KPZ

13:15–14:45 Lunch break

Invited talks NQM – Meridian <i>Chair: Reinhard Werner</i>	Invited talks PDE – Zenit <i>Chair: Heinz Siedentop</i>	Invited talks PT – Nadir <i>Chair: Alice Guionnet</i>	Invited talks OA – Leo-Virgo <i>Chair: Detlev Buchholz</i>
14:45–15:30 R. L. Frank HARDY-LIEB-THIRRING INEQUALITIES	14:45–15:15 C. De Lellis H-PRINCIPLE AND FLUID DYNAMICS	14:45–15:15 E. Lubetzky GLAUBER DYNAMICS FOR SPIN SYSTEMS AT HIGH AND CRITICAL TEMPERATURES	14:45–15:15 S. Waldmann POSITIVITY IN RIEFFEL'S STRICT DEFORMATION QUANTIZATION
15:40–16:25 S. Warzel ON THE HYDRODYNAMIC PERSPECTIVE ON SPECTRAL FLOWS AND UNIVERSALITY IN A CLASS OF RANDOM MATRICES	15:20–15:50 S. Selberg ON THE MAXWELL-KLEIN-GORDON SYSTEM IN LORENZ GAUGE	15:20–15:50 G. Miermont SCALING LIMITS OF RANDOM PLANAR MAPS WITH LARGE FACES	15:20–15:50 G. Lechner DEFORMATIONS OF OPERATOR ALGEBRAS AND THE CONSTRUCTION OF QUANTUM FIELD THEORIES
	15:55–16:25 J. Sterbenz RECENT PROGRESS ON WAVE-MAPS	15:55–16:25 G. Pete THE SCALING LIMITS OF DYNAMICAL AND NEAR-CRITICAL PERCOLATION, AND THE MINIMAL SPANNING TREE	15:55–16:25 R. Nest TOWARDS A SPECTRAL TRIPLE FOR LQG
16:25–16:50 Coffee break			
Invited talks MDS – Meridian <i>Chair: Olga Krupková</i>	Invited talks NFMP – Zenit <i>Chair: Ruedi Seiler</i>	Invited talks QFT – Nadir <i>Chair: Klaus Fredenhagen</i>	Invited talks ESM – Leo-Virgo <i>Chair: David Brydges</i>
16:50–17:20 C.-Q. Cheng UNBOUNDED ORBITS IN POSITIVE DEFINITE HAMILTONIAN SYSTEMS	16:50–17:20 J. Sherratt SPATIOTEMPORAL DYNAMICS IN ECOLOGY: INSIGHTS FROM PHYSICS	16:50–17:20 I. Runkel DEFECTS AND SYMMETRIES	16:50–17:20 F. Toninelli DISORDER AND CRITICAL PHENOMENA: THE CASE OF THE PINNING TRANSITION
17:25–17:55 S. Kuksin DISSIPATIVE PERTURBATIONS OF THE KDV EQUATION	17:25–17:55 G. Uhlmann CLOAKING AND TRANSFORMATION OPTICS	17:25–17:55 V. Terras ON CORRELATION FUNCTIONS OF QUANTUM INTEGRABLE SYSTEMS	17:25–17:55 G. Kozma ISOTROPICITY IMPLIES SUBBALLISTICITY
18:00–18:30 A. Veselov QUANTUM CALOGERO-MOSER SYSTEMS: A VIEW FROM INFINITY	18:00–18:30 D. Langlois GLIMPSES INTO THE EARLY UNIVERSE	18:00–18:30 M. Müller GRAPHENE: RELATIVISTIC TRANSPORT IN A NEARLY PERFECT QUANTUM LIQUID	18:00–18:30 S. Adams GRADIENT MODELS WITH NON-CONVEX INTERACTIONS
18:30–20:00 Dinner break			
20:00–22:00 P. Exner + officers: IAMP General Assembly – Meridian			
9:00–18:30 Poster session – QFT, MBQM, STQG, NFMP – Aquarius + Taurus			

Tuesday, August 4

Plenary session – Meridian *Chair: Jürg Fröhlich*

9:00–10:00 D. Christodoulou: THE FORMATION OF BLACK HOLES IN GENERAL RELATIVITY

Plenary session – Meridian *Chair: Volker Bach*

10:15–11:15 A. Pizzo: THE INFRARED PROBLEM IN NONRELATIVISTIC QED

11:15–11:45 Coffee break

Plenary session – Meridian *Chair: Craig Tracy*

11:45–12:45 P. Šeba: TRAFFIC AND THE VISUAL PERCEPTION OF SPACE

12:45–14:15 Lunch break

Invited talks PDE – Meridian <i>Chair: Michael Berry</i>	Invited talks MBQM – Zenit <i>Chair: Gian Michele Graf</i>	Invited talks STQG – Nadir <i>Chair: Samson Shatashvili</i>	Contributed ESM/NESM – Leo-Virgo <i>Chair: Roman Kotecký</i>
14:15–15:00 C. Villani LANDAU DAMPING	14:15–14:45 S. Jansen SYMMETRY BREAKING IN LAUGHLIN'S STATE ON A CYLINDER	14:15–15:00 H. Samtleben MAXIMAL SUPERSYMMETRY AND NON-ABELIAN GAUGE GROUPS	14:15–14:30 Daniel Ueltschi ON RANDOM PERMUTATIONS WITH NONUNIFORM DISTRIBUTIONS
	14:55–15:25 S. Fournais SUPERCONDUCTIVITY NEAR SECOND CRITICAL FIELD		14:35–14:50 K. S. Alexander LAYERING AND WETTING TRANSITIONS FOR AN SOS INTERFACE WITHOUT EXTERNAL FIELD
15:15–16:00 M. Dafermos THE BLACK HOLE STABILITY PROBLEM IN GENERAL RELATIVITY	15:35–16:05 J. P. Solovej THE LEE-HUANG-YANG FORMULA FOR DILUTE BOSE GASES	15:15–16:00 J. Sparks ADS/CFT AND GENERALIZED COMPLEX GEOMETRY	14:55–15:10 M. Fujimoto POINT GROUPS, GALOIS COVERINGS, AND THEIR APPLICATIONS TO RG ANALYSES IN TWO-DIMENSIONAL LATTICE MODELS
			15:15–15:30 S. Starr QUENCHED CLT FOR ENERGY IN MF SPIN GLASSES
			15:35–15:50 S. Paleari ON THE APPROACH TO EQUILIBRIUM AND MIXING PROPERTIES IN FERMI-PASTA-ULAM MODELS
			15:55–16:10 E. A. Pereira NONEQUILIBRIUM STATISTICAL MECHANICS OF (AN)HARMONIC CHAINS WITH SELF-CONSISTENT RESERVOIRS

16:10–16:40 Coffee break

Invited talks NQM – Meridian <i>Chair: Abel Klein</i>	Invited talks NESM – Zenit <i>Chair: Horng-Tzer Yau</i>	Contributed MDS – Nadir <i>Chair: Helmut Hofer</i>	Contributed OA/QFT – Leo-Virgo <i>Chair: Yasuyuki Kawahigashi</i>
16:40–17:10 I. Veselic ALLOY TYPE MODELS WITH SINGLE SITE POTENTIALS OF CHANGING SIGN	16:40–17:10 A. Kupiainen DIFFUSION IN COUPLED MAP LATTICES	16:40–16:55 C. Schumacher CLASSICAL MOTION IN RANDOM POTENTIALS	16:40–16:55 M. Joita PRO-C*-DYNAMICAL SYSTEMS WITH CROSSED PRODUCTS C*-ALGEBRAS
		17:00–17:15 H. Sanchez-Morgado LIMIT OF THE INFINITE HORIZON DISCOUNTED HAMILTON JACOBI EQUATION	17:00–17:15 D. Chruscinski SPECTRAL CONDITIONS FOR POSITIVE MAPS IN MATRIX ALGEBRAS
17:20–17:50 V. Betz TRANSITIONS THROUGH AVOIDED CROSSINGS IN MOLECULAR QUANTUM DYNAMICS	17:20–17:50 S. Olla FROM MICROSCOPIC DYNAMICS TO HEAT EQUATION: A WEAK COUPLING APPROACH	17:20–17:35 G. Teschl LONG-TIME ASYMPTOTICS OF THE TODA LATTICE FOR ASYMPTOTICALLY PERIODIC INITIAL CONDITIONS	17:20–17:35 V. A. Zagrebnov NUMERICAL RANGE AND QUASI-SECTORIAL CONTRACTIONS
		17:40–17:55 T. Kalvoda A RESONANCE OF THE CYCLOTRON FREQUENCY WITH A TIME-PERIODIC SINGULAR FLUX TUBE	17:40–17:55 C. Dappiaggi STUDYING THE BACKREACTION OF QUANTUM SCALAR FIELDS IN A COSMOLOGICAL SCENARIO
18:00–18:30 P. Samuelsson REDUCED AND PROJECTED TWO-PARTICLE ENTANGLEMENT AT FINITE TEMPERATURES	18:00–18:30 B. Nachtergaele LIEB-ROBINSON BOUNDS FOR QUANTUM LATTICE DYNAMICS AND APPLICATIONS		

18:30–20:00 Dinner break

Round table – Meridian *Moderator: Joel Lebowitz*

20:00–20:40 S. Leibler: HISTORY VERSUS FUNCTION: THE CASE OF PROTEINS

20:40–21:20 M. Berry: FAST AND SLOW

21:20–22:00 L. Susskind: FAST SCRAMBLERS

22:00–22:30 Round table discussion

9:00–18:30 Poster session – NQM, PT, OA – Aquarius+Taurus

Wednesday, August 5

Plenary session – Meridian Chair: Joel Lebowitz

9:00–10:00 S. Weinberg: CHANGING VIEWS OF QUANTUM FIELD THEORY

Plenary session – Meridian Chair: Rafael Benguria

10:15–11:15 S. Serfaty: FROM THE GINZBURG-LANDAU MODEL TO VORTEX LATTICE PROBLEMS

11:15–11:45 Coffee break

Plenary session – Meridian Chair: Antti Kupiainen

11:45–12:45 J. Marklof: KINETIC TRANSPORT IN CRYSTALS

12:45–14:15 Lunch break

Invited talks NESM – Meridian Chair: Klaus Hepp	Invited talks PDE – Zenit Chair: Kenji Yajima	Invited talks MDS – Nadir Chair: Alain Joye	Invited talks STQG – Leo-Virgo Chair: Jiří Běčák
14:15–15:00 J. Fröhlich PERSPECTIVES IN MATHEMATICAL PHYSICS	14:15–14:45 A. Ionescu ON THE UNIQUENESS OF STATIONARY BLACK HOLES IN VACUUM	14:15–14:45 V. Kaloshin QUASIERGODIC HYPOTHESIS AND EXAMPLES OF A NEARLY INTEGRABLE HAMILTONIAN SYSTEMS WITH LARGE TRANSITIVE SETS	14:15–15:00 G. Bossard EXTREMAL BLACK HOLES AND NILPOTENT ORBITS
15:10–15:50 B. Schlein DERIVATION OF EFFECTIVE EVOLUTION EQUATIONS FROM MANY BODY QUANTUM DYNAMICS	14:50–15:20 S. Wu AWELLPOSEDNESS OF THE TWO AND THREE DIMENSIONAL FULL WATER WAVE PROBLEM	14:50–15:20 A. Wilkinson PARTIAL HYPERBOLICITY, CHAOS AND SYMMETRY	15:10–15:50 D. Kubizňák PARTICLES AND FIELDS IN THE BACKGROUND OF HIGHER-DIMENSIONAL ROTATING BLACK HOLE
	15:25–15:55 F. Golse NONLINEAR REGULARIZING EFFECTS FOR HYPERBOLIC CONSERVATION LAWS	15:25–15:55 D. Szász BIILIARD MODELS AND ENERGY TRANSFER	
15:55–16:20 Coffee break			
Human Rights & Social Responsibility – Meridian Moderator: Joel Lebowitz			Leo-Virgo
16:20–16:40 J. Lebowitz: HUMAN RIGHTS & SOCIAL RESPONSIBILITY OF SCIENTISTS			16:20–17:00 B. Duplantier, T. Hempfling: AHP journal prize ceremony
16:40–17:00 Š. Pánek: FREEDOM AND DEMOCRACY ARE NOT SELF-EVIDENT			
17:00–17:20 N. Hounkonnou: MATHEMATICAL PHYSICS FROM AFRICA: STATUS AND PROGRESS			
17:20–18:15 Transport break			
18:30–19:00 St. Vitus Cathedral open			
19:00–20:30 St. Vitus Cathedral concert			

Thursday, August 6

Plenary session – Meridian *Chair: Ana Bela Cruzeiro*

9:00–10:00 P. Holmes: THE PHYSICS OF DECISION MAKING: STOCHASTIC DIFFERENTIAL EQUATIONS AS MODELS FOR NEURAL DYNAMICS AND EVIDENCE ACCUMULATION IN CORTICAL CIRCUITS

Plenary session – Meridian *Chair: Bruno Nachtergaele*

10:15–11:15 A. Guionnet: MATRIX MODELS, ENUMERATION OF MAPS AND FREE PROBABILITY.

11:15–11:45 Coffee break

Plenary session – Meridian *Chair: Ira Herbst*

11:45–12:45 R. Seiringer: HOT TOPICS IN COLD GASES

12:45–14:15 Lunch break

Invited talks PT – Meridian <i>Chair: Jean-Claude Zambrini</i>	Invited talks QFT – Zenit <i>Chair: Manfred Salmhofer</i>	Contributed PDE – Nadir <i>Chair: Evans Harrell</i>	Contributed NQM/MBQM – Leo-Virgo <i>Chair: Arne Jensen</i>
14:15–14:45 A. Borodin INTERLACING PARTICLE SYSTEMS	14:15–14:45 M. Zirnbauer FREE PROBABILITY MEETS SUPERSYMMETRY	14:15–14:30 J. A. V. Kroon A RIGIDITY PROPERTY OF THE DEVELOPMENT OF CONFORMALLY FLAT DATA IN GENERAL RELATIVITY	14:15–14:30 M. Ballesteros AHARONOV-BOHM ANSATZ AND TONOMURA ET AL. EXPERIMENTS: RIGOROUS PROOFS.
		14:35–14:50 V. M. Fedorchuk ON SOME CLASSES OF THE PARTIAL DIFFERENTIAL EQUATIONS WITH NON-TRIVIAL SYMMETRY GROUPS	14:35–14:50 O. Turek VERTEX COUPLINGS IN QUANTUM GRAPHS
14:55–15:25 B. Valkó DYSON'S BETA ENSEMBLE AND THE BROWNIAN CAROUSEL	14:55–15:25 D. Kreimer THE MATHEMATICAL STRUCTURE OF DYSON SCHWINGER EQUATIONS	14:55–15:10 J. Málek MATHEMATICAL ANALYSIS OF UNSTEADY FLOWS OF FLUIDS WITH PRESSURE, SHEAR-RATE AND TEMPERATURE DEPENDENT MATERIAL MODULI	14:55–15:10 H. Cornean SHARP TRACE ASYMPTOTICS FOR A CLASS OF 2D MAGNETIC OPERATORS
		15:15–15:30 M. Pokorný STEADY COMPRESSIBLE NAVIER-STOKES-FOURIER SYSTEM	15:15–15:30 M. Mosonyi ASYMPTOTIC HYPOTHESIS TESTING FOR CORRELATED QUANTUM STATES
15:35–16:05 N. O'Connell PATH TRANSFORMATIONS OF BROWNIAN MOTION CONNECTED WITH RANDOM MATRICES AND REPRESENTATION THEORY	15:35–16:05 G. Korchemsky SURPRISING SYMMETRIES OF SCATTERING AMPLITUDES IN GAUGE THEORIES	15:35–15:50 D. Krejčířik THE HARDY INEQUALITY AND THE ASYMPTOTIC BEHAVIOUR OF THE HEAT EQUATION IN TWISTED DOMAINS	15:35–15:50 F. Buscemi ONE-SHOT QUANTUM CAPACITIES OF QUANTUM CHANNELS
		15:55–16:10 V. M. Shelkovich DELTA-SHOCK WAVES AND MEDIUMS WHICH CAN BE TREATED AS PRESSURELESS CONTINUUMS	15:55–16:10 A. Datta SIGNATURES OF NONCLASSICALITY IN MIXED-STATE QUANTUM COMPUTATION
16:10–16:40 Coffee break			
Invited talks NQM – Meridian <i>Chair: Nilanjana Datta</i>	Invited talks NESM – Zenit <i>Chair: Herbert Spohn</i>	Contributed NFMP – Nadir <i>Chair: Petr Šeba</i>	Contributed PT – Leo-Virgo <i>Chair: Dénes Petz</i>
16:40–17:10 R. Renner OPTIMAL DECOUPLING	16:40–17:10 J. Quastel SCALING EXPONENT OF KPZ/STOCHASTIC BURGERS	16:40–16:55 K. Saifullah THERMODYNAMICS OF DILATON AXION BLACK HOLES	16:40–16:55 O. Khorunzhiy ON ESTIMATES OF THE MOMENTS OF WIGNER RANDOM MATRICES
		17:00–17:15 M. Monastyrsky THE LATTICE SPIN MODELS AND HECKE GRAPHS	17:00–17:15 A. B.J. Kuijlaars RANDOM MATRICES WITH EXTERNAL SOURCE
17:20–17:50 A. Harrow ENTANGLEMENT SPREAD AND CLEAN RESOURCE INEQUALITIES	17:20–17:50 J. Lukkarinen DECAY OF EQUILIBRIUM TIME CORRELATIONS IN A WEAKLY NONLINEAR SCHRÖDINGER EQUATION	17:20–17:35 R. L. Ricca TOPOLOGY BOUNDS THE ENERGY OF KNOTS AND LINKS	17:20–17:35 A. Hammond MAXIMUM LOCAL ROUGHNESS IN 2D BROWNIAN AND PERCOLATION MODELS
		17:40–17:55 A. Mostafazadeh SPECTRAL SINGULARITIES AND THEIR PHYSICAL APPLICATIONS	
18:00–18:30 M. Plenio FROM AREA LAWS TO THE SIMULATION OF QUANTUM SYSTEMS	18:00–18:30 C. Tracy ASEP: INTEGRABLE STRUCTURES AND LIMIT THEOREMS	18:00–18:15 L. J. Boya PISOT NUMBERS AND QUASICRYSTALS	
		18:20–18:35 J. Turski GEOMETRIC FOURIER ANALYSIS IN COGNITIVE VISION	
18:35–19:30 Transport break			
19:30–24:00 Občanská plovárna: congress dinner			
9:00–18:30 Poster session – MDS, ESM, NESM – Aquarius+Taurus			

Friday, August 7

Plenary session – Meridian *Chair: Jonathan Dimock*

9:00–10:00 D. Kosower: NEW TECHNOLOGIES IN THE HUNT FOR NEW PHYSICS

Plenary session – Meridian *Chair: Jan Philip Solovej*

10:15–11:15 V. Mastropietro: ISING MODELS, UNIVERSALITY AND THE NON-RENORMALIZATION OF THE QUANTUM ANOMALIES

11:15–11:45 Coffee break

Plenary session – Meridian *Chair: Sergey P. Novikov*

11:45–12:45 S. Shatashvili: SUPERSYMMETRIC VACUA AND QUANTUM INTEGRABILITY

12:45–14:15 Lunch break

Invited talks MBQM – Meridian <i>Chair: Jakob Yngvason</i>	Invited talks NFMP – Zenit <i>Chair: Yosi Avron</i>	Contributed STQG/QFT – Nadir <i>Chair: Ladislav Hlavatý</i>	Contributed PDE – Leo-Virgo <i>Chair: Wei-Min Wang</i>
14:15–14:45 K. Schoutens EXACT RESULTS FOR SUPERSYMMETRIC LATTICE MODELS	14:15–14:45 R. Raussendorf MEASUREMENT-BASED QUANTUM COMPUTATION WITH CLUSTER STATES	14:15–14:30 M. Smedback SUPERCONFORMAL CHERN-SIMONS THEORIES AND ADS(4)/CFT(3) CORRESPONDENCE	14:15–14:30 M. Skopina P-ADIC PSEUDO-DIFFERENTIAL EQUATIONS AND WAVELETS
		14:35–14:50 G. S. Vartanov SUPERCONFORMAL INDICES FOR N=1 THEORIES WITH MULTIPLE DUALS	14:35–14:50 Y. Pinchover ON POSITIVE SOLUTIONS AND LIOUVILLE THEOREMS FOR P-LAPLACIAN-TYPE EQUATIONS
14:55–15:25 A. Giuliani THE 2D HUBBARD MODEL ON THE HONEYCOMB LATTICE	14:55–15:25 D. Aharonov QUANTUM HAMILTONIAN COMPLEXITY: WHAT QUANTUM INFORMATION TELLS US ABOUT CONDENSED MATTER PHYSICS	14:55–15:10 L. Šnobl DESCRIPTION OF D-BRANES INVARIANT UNDER THE POISSON-LIE T-PLURALITY	14:55–15:10 M. Narita GLOBAL PROPERTIES OF EXPANDING SPACETIMES WITH CYLINDRICAL GRAVITATIONAL WAVES
		15:15–15:30 D. E. Diaz ON FUNCTIONAL DETERMINANTS IN ADS/CFT: A HOLOGRAPHIC FORMULA	15:15–15:30 A. Enciso CRITICAL POINTS AND LEVEL SETS OF SOLUTIONS TO ELLIPTIC PDES
15:35–16:05 F. Verstraete ENTANGLEMENT IN QUANTUM SPIN SYSTEMS	15:35–16:05 I. Klich QUANTUM QUENCHES: CURRENT SURVIVAL AND OTHER PROBLEMS	15:35–15:50 G. Rudolph ON SINGULAR REDUCTION, QUANTIZATION AND THE OBSERVABLE ALGEBRA FOR GAUGE MODELS	15:35–15:50 D. Löbch BOUNDARY DIFFERENTIABILITY OF SOLUTIONS OF ELASTIC PLASTIC PROBLEMS WITH LINEAR HARDENING
		15:55–16:10 S. B. Rutkevich RADIATIVE CORRECTIONS TO THE MASSES OF COMPOUND PARTICLES IN THE ISING FIELD THEORY	15:55–16:10 A. Procacci ABSTRACT POLYMER GAS WITH ATTRACTIVE PAIR INTERACTIONS

16:10–16:40 Coffee break

Invited talks OA – Meridian <i>Chair: Masaki Izumi</i>	Invited talks ESM – Zenit <i>Chair: Marek Biskup</i>	Contributed NQM/MBQM – Nadir <i>Chair: László Erdős</i>	Contributed MDS – Leo-Virgo <i>Chair: Motoko Kotani</i>
16:40–17:10 M. Mürger ON SUPERSELECTION THEORY OF QUANTUM FIELDS IN LOW DIMENSIONS	16:40–17:10 M. Disertori A SUPERSYMMETRIC MODEL FOR QUANTUM DIFFUSION IN 3D	16:40–16:55 M. J. Gruber FROM FDE THROUGH ODE TO PDE: UNIFORM EXISTENCE OF THE IDS	16:40–16:55 N. A. Magnitskii THE NONCLASSICAL APPROACH TO ANALYSIS OF HAMILTONIAN AND CONSERVATIVE SYSTEMS
		17:00–17:15 Y. Kang DIFFUSION OF WAVEPACKETS IN A MARKOV RANDOM POTENTIAL	17:00–17:15 A. K. Prykarpatsky INTEGRABILITY ANALYSIS OF A NONLOCAL OSTROVSKY-WHITHAM FLOW
17:20–17:50 S. Neshveyev QUANTUM GROUPS AS SPIN MANIFOLDS	17:20–17:50 S. Smirnov MASSIVE SCHRAMM-LOEWNER EVOLUTIONS	17:20–17:35 A. S. Kostenko SPECTRAL ANALYSIS OF 1-D SCHRÖDINGER OPERATORS WITH LOCAL POINT INTERACTIONS	17:20–17:35 O. N. Kirillov DISSIPATIVE UNFOLDING OF 1:1 SEMI-SIMPLE RESONANCE WITH DEFINITE AND MIXED KREIN SIGNATURE
		17:40–17:55 M. Griesemer THE ATOMIC PHOTOEFFECT IN NON-RELATIVISTIC QED	17:40–17:55 A. Sergyeyev GENERALIZED STACKEL TRANSFORM: INTEGRABILITY AND BEYOND
18:00–18:30 T. Matsui SYMMETRY BREAKING AND SPLIT PROPERTY IN QUANTUM SPIN CHAIN	18:00–18:30 A. Abdesselam RENORMALIZATION GROUP TRAJECTORIES BETWEEN TWO FIXED POINTS	18:00–18:15 G. Kells TOPOLOGICAL ORDER IN QUANTUM LATTICE MODELS	18:00–18:15 J. Dittrich ON THE INTEGRALS OF MOTION FOR A CALOGERO-MOSER SYSTEM WITH SPINS AND ELLIPTIC EXCHANGE INTERACTION
		18:20–18:35 H.-P. Eckle TWO INTEGRABLE QUANTUM IMPURITY MODELS	18:20–18:35 A. Henrici NEKHOROSHEV THEOREM FOR THE PERIODIC TODA LATTICE

18:35–20:00 Dinner break

Social program – Meridian

20:00–20:15 Best Poster Prize

20:15–21:15 I. Štoll: SCIENCE IN PRAGUE THROUGH CENTURIES

21:15–22:30 Zemlinsky Quartet Concert

9:00–18:30 Poster session – PDE – Aquarius+Taurus

Saturday, August 8

Plenary session – Meridian

Chair: Huzihiro Araki

9:00–10:00 R. Longo: OPERATOR ALGEBRAS AND NONCOMMUTATIVE GEOMETRIC ASPECTS IN CONFORMAL FIELD THEORY

Plenary session – Meridian

Chair: Veronique Terras

10:15–11:15 V. Bazhanov: QUANTUM GEOMETRY OF 3-DIMENSIONAL LATTICES

11:15–11:45 Coffee break

Plenary session – Meridian

11:45–12:45 P. Exner, ICMP12 convener: Closing ceremony

Lunch break

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