

XVI International Conference Symmetry Methods in Physics

SYMPHYS-2014

Registered participants SYMPHYS-2014

13.09.2014

(*) to be registered

- 1 **Arbuzov Boris (Moscow State University)**
Spontaneous generation of effective interactions in nonabelian gauge QFT
arbuzov@theory.sinp.msu.ru
- 2 **Belavin Alexander (ITP Chernogolovka)**
TBA
belavin@itp.ac.ru
plenary talk
- 3 **Bender Carl Martin (Washington University in St. Louis)**
Nonlinear eigenvalue problems and \square PT-symmetric quantum mechanics
cmb@wustl.edu
plenary talk
- 4 **Berger Robert (Philipps-Universitaet Marburg)**
Fundamental symmetries and their violation in molecular systems
robert.berger@uni-marburg.de
- 5 **Bonora Lorian (SISSA, Trieste)**
Conformal invariance, correlators and anomalies
bonora@sissa.it
plenary talk
- 6 **Breev Alexander (Tomsk State University)**
Noncommutative integration method and quantum asymmetric top
breev@mail.tsu.ru
- 7 **Chavleishvili Mikhail (Dubna University)**
Symmetry, representation theory, Wigner functions and binary processes
chavlei@yandex.ru
- 8 **Chernichenko Yury (Gomel STU)**
Form Factor of the Relativistic Two-Particle System in the Relativistic Quasipotential Approach: The Case of Arbitrary Masses and Scalar Current
chyud@mail.ru
- 9 **Cirilo-Lombardo Diego Julio (BLTP JINR)**
TBA
diego777jcl@gmail.com
- 10 **Corrigan Edward (University of York)**
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ec9@york.ac.uk
plenary talk

- 11 **Daboul Jamil (Ben Gurion University of the Negev)** jdaboul@gmail.com
On coherent states of the quantum solutions and classical orbits of two shape-conserving regularization of power potentials, and open questions
- 12 **Dobrev Vladimir (INRNE, Sofia)** dobrev@inrne.bas.bg
Intertwining Operator Realization of anti de Sitter Holography plenary talk
- 13 **Eliseev Sergey (BLTP JINR)** selis@theor.jinr.ru
Phenomenology of in-medium effects: bridging the gap between high and low energy processes
- 14 **Faustov Rudolf (Dorodnicyn Comp. Centre RAS, Moscow)** faustov@ccas.ru
- 15 **Filippov Alexandre (JINR)** Filippov@theor.jinr.ru
On complete, gauge-independent, analytic solution of FRW-scalaron cosmology with arbitrary potential plenary talk
- 16 **Ganev Huben (JINR)** huben@theor.jinr.ru
The $Sp(12, R)$ symplectic model of nuclear collective motions
- 17 **Gevorkyan Ashot (IIAP NAS, Yerevan)** g_ashot@sci.am
On the exact construction of quantum thermodynamics of gas consisting of 2D oscillators
- 18 **Glushchenko Anton (NSC «Kharkov IPT»)** glushchenko.ant@gmail.com
Exchange $SU(2s+1)$ symmetry and nonlinear dynamics of high spin magnets
- 19 **Goncharovsky Mikhail (Omsk State University)** eiklm@mail.ru
A new method for finding differential invariants of Lie groups
- 20 **Gozdz Andrzej (Univ. of Maria Curie, Lublin)** Andrzej.Gozdz@umcs.lublin.pl
Projection evolution versus unitary evolution
- 21 **Gromov Nikolai (Komi Sc.Center RAS, Syktyvkar)** gromov@dm.komisc.ru
Natural energy limits of Electroweak Model from first principles
- 22 **Grosche Christian (Hamburg University)** christian.grosche@t-online.de
Recent Path Integral Developments

- 23 **Gusev Alexander (BLTP JINR)** gusev@jinr.ru
- 24 **Kapuscik Edward (University of Lodz & INP, Krakow)** Edward.Kapuscik@ifj.edu.pl
Energy and momentum of tachyons
- 25 **Karasev Mikhail (Moscow)** karasev@miem.edu.ru
TBA plenary talk
- 26 **Kattabekov Rasuljon (LHEP JINR)** rasul@lhe.jinr.ru
- 27 **Khvedelidze Arsen (Razmadze Math.Inst. & JINR)** akhved@jinr.ru
Exploring entanglement space of qubit pairs
- 28 **Kichakova Olga (Oldenburg University)** olga.kichakova@uni-oldenburg.de
Non-Abelian axially symmetric fields in AdS4 spacetime
- 29 **Klimov Andrey ()** klimov@cencar.udg.mx
TBA plenary talk
- 30 **Kolganova Elena (JINR)** kea@theor.jinr.ru
- 31 **Korolkova Anna (Peoples' Friendship Univ., Moscow)** avkorolkova@gmail.com
- 32 **Kota Venkata Krishna Brahma (Phys.Res.Lab., Ahmedabad)** vkbkota@prl.res.in
Exact Results for Random Matrix Ensembles with Symmetries for Finite Quantum Many-body systems
- 33 **Kudinov Alexei (Tver State University)** mancu@mail.ru
- 34 **Kulyabov Dmitry (Peoples' Friendship Univ., Moscow)** yamadharma@gmail.com
- 35 **López-Ruiz Francisco (University of Cadiz)** paco.lopezruiz@uca.es

Sharing symmetries for some non-linear systems

36 **Lukashevich Svetlana (Gomel State University)**

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37 **Lyuboshitz Valery (JINR)**

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1) Lepton mixing under the lepton charge nonconservation, neutrino masses and oscillations and the "forbidden" decay $\mu^- \rightarrow e^- + \gamma$

38 **Lyuboshitz Valery (JINR)**

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2) Possible effect of mixed phase and deconfinement upon spin correlations in the Λ pairs generated in relativistic heavy-ion collisions

39 **Magazev Alexey (Omsk State Technical University)**

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The integration method of classical and quantum equations on Lie groups

40 **Makhaldiani Nugzar (JINR)**

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Hadronization and Renormdynamics

41 **Manko Vladimir (INFN)**

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plenary talk

42 **Marquette Ian (Univ. of Queensland, Brisbane)**

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Quadratic algebras of superintegrable systems with monopole interaction and non-central potential

43 **Matyukhina Olga (JINR)**

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44 **Mayburov Sergey (Lebedev Inst. of Physics, Moscow)**

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Fuzzy Topology and Geometric Quantum Formalism

45 **Mir-Kasimov Rufat (BLTP JINR)**

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Unified Description of q -Deformed Harmonic Oscillators

46 **Mnatsakanova Melita (SINP MSU Moscow)**

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Haag's Theorem in Gauge Theories

- 47 **Moskaliuk Stepan (BITP Kyiv)** mss@bitp.kiev.ua
Symmetries of Deformed Schroedinger operators on noncommutative Cayley-Klein spacetimes
- 48 **Palii Yuri (JINR)** palii@jinr.ru
- 49 **Pestov Ivanhoe (BLTP JINR)** pestov@theor.jinr.ru
Symmetry and quantum effects of additional dimension of space
- 50 **Petkova Valentina (INRNE, Sofia)** petkova@inrne.bas.bg
- 51 **Plakida Nikolay (JINR)** plakida@theor.jinr.ru
Symmetry restrictions in unconventional superconductors
plenary talk
- 52 **Pogosyan George (YSU & JINR)** pogosyan@theor.jinr.ru
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- 53 **Pozdeeva Ekaterina (SINP MSU Moscow)** pozdeeva@www-hep.sinp.msu.ru
Stability analysis of de Sitter solutions in cosmological models with non-minimal coupling
- 54 **Reshetnyak Alexander (ISPMS SB RAS, Tomsk)** reshet@ispms.tsc.ru
Finite BRST and BRST-antiBRST symmetry transformations in Yang-Mills and general gauge theories
- 55 **Robuk Victor (JINR)** robuk@jinr.ru
Symmetry operators of linear differential equations
- 56 **Rubakov Valerii (INR RAS, Moscow)**
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plenary talk
- 57 **Rybakov Yuri (Peoples' Friendship Univ., Moscow)** soliton4@mail.ru
Topological Solitons in Skyrme - Faddeev Spinor Model
- 58 **Sandukovskaya Galina (JINR)** galina@theor.jinr.ru
- 59 **Sevastyanov Leonid (Peoples' Friendship Univ., Moscow)** leonid.sevast@gmail.com

Hamiltonian representation of the optics in the curvilinear coordinate systems

- 60 **Shnir Yakov (BLTP JINR)** shnir@theor.jinr.ru
Gauged baby Skyrmions and Hopfions
- 61 **Silenko Alexander (BLTP JINR)** alsilenko@mail.ru
New view on conformal invariance for scalar and Dirac particles in Riemannian spacetimes
- 62 **Sissakian Natalia (JINR)**
- 63 **Slavnov Andrey (SMI RAS, Moscow)** slavnov@mi.ras.ru
TBA plenary talk
- 64 **Solovtsova Olga (Gomel State Technical Univ.)** olsol@theor.jinr.ru
Variational perturbation theory and beyond
- 65 **Sorin Alexander (JINR)** sorin@theor.jinr.ru
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- 66 **Spera Mauro (Univ.Cattolica del Sacro Cuore, Brescia)** mauro.spera@unicatt.it
On the geometry of some unitary Riemann surface braid group representations and Laughlin-type wave functions
- 67 **Szajewska Marzena (Universite de Montreal)** m.szajewska@math.uwb.edu.pl
Symmetry breaking of fullerenes
- 68 **Todorov Ivan (INRNE, Sofia)** todorov@inrne.bas.bg
Recent developments in perturbative quantum field theory plenary talk
- 69 **Tokarev Mikhail (JINR)** tokarev@jinr.ru
Self-similarity in pp collisions at high energies
- 70 **Tsvetkov Victor (Tver State University)** tsvet@tversu.ru
Axial symmetry of equilibrium post-Newtonian rotating configurations
- 71 **Tsvetkov Ilya (Tver State University)** mancu@mail.ru
Self-similar linear multifractal dynamics

- 72 **Vernov Sergey (SINP MSU Moscow)** svernov@theory.sinp.msu.ru
Renormalization-group inflationary scenarios
- 73 **Vernov Yuri (INR RAS Moscow)** vernov@inr.ac.ru
Euclidean Noncommutative Quantum Field Theory
- 74 **Vinitsky Sergey (BLTP JINR)** vinitsky@theor.jinr.ru
- 75 **Voronov Victor (BLTP JINR)** voronov@theor.jinr.ru
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- 76 **Winternitz Pavel (Universität Montreal)** wintern@crm.umontreal.ca
TBA plenary talk
- 77 **Yamaleev Robert (JINR & UNAM-Mexico)** yamaleev@jinr.ru
Elements of generalized dynamics in terms of Pascal triangles
- 78 **Yukalov Vyacheslav (JINR)** yukalov@theor.jinr.ru
(1) Quantum joint probability for measurements under uncertainty (with D. Sornette; Section: Foundations of quantum mechanics). (2) Use of nanomolecules for quantum information processing (with E.P. Yukalova; Section: Quantum information)
- 79 **Yukalova Elizaveta (JINR)** yukalova@theor.jinr.ru
- 80 **Zhuravlev Viacheslav (JINR)** vzhur@theor.jinr.ru
- 81 **Zupnik Boris (BLTP JINR)** zupnik@theor.jinr.ru
 $N=4$ Yang-Mills theory and harmonic superspace