CFT, Integrable Models And Liouville Gravity

Chernogolovka 2009

Sunday June 28, 2009. *Conference Hall.*

10:10–10:50 Registration, coffee
10:50–11:10 Opening
11:10–11:50 Alexei Shabat (Landau Institute), and R. Garifullin
On the structure of the polynomial conservation laws
11:50–12:30 Leonid Chekhov (Steklov Institute, Moscow)
Algebras of Yangian type from D_n algebras of geodesics on orbifold Riemann surfaces
12:30–13:10 Kazuo Hosomichi (Yukawa Institute)
Boundary phenomena in the dilute $O(n)$ matrix model
13:30–14:30 Lunch
14:30–15:10 Frank Göhmann (Wuppertal University)
Thermal correlation functions of quantum spin chains
15:10–15:50 Andreas Klümper (Wuppertal University) and B. Aufgebauer
Spectral properties of quantum spin chains of Temperley-Lieb type
15:50–16:30 Jun'ichi Shiraishi (Tokyo University)
Macdonald polynomials and quantum algebras
16:30–16:50 Coffee break
16:50–17:30 Anatoliy Zhiber (Math. Institute, Ufa) and O. Kostrigina
Characteristic Lie algebras and nonlinear hyperbolic system of equations
17:30–18:10 Rustem Garifullin (Math. Institute, Ufa)
From weak discontinuity to nondissipative shock waves
18:10–18:50 Bulat Suleimanov (Math. Institute, Ufa)
"Quantum" linearizations of Painleve equations as one of components of their L, A pairs.

CFT, Integrable Models
And
Liouville Gravity

Chernogolovka, 2009

Monday June 29, 2009. *Conference Hall.*

09:30–10:10 Alexander Razumov (IHEP) and Yu. Stroganov
Three-coloring statistical model with domain wall boundary conditions
10:10–10:50 Nikita Slavnov (Steklov Institute)
Long-distance asymptotics of correlation functions of XXZ Heisenberg chain
10:50–11:10 Coffee break
11:10–11:50 Vitaliy Tarasov (Steklov Inst. St. Petersburg)
On Gaudin model for vector representations
11:50–12:30 Rainald Flume (Bonn University)
Matrix models as scalar field theories
12:30–13:10 Edward Corrigan (Durham University)
Aspects of integrable defects
13:30–14:30 Lunch
14:30–15:10 Giuseppe Mussardo (SISSA Trieste)
Topological Quantum Computation: The Art of Computing with Icosahedral Group
15:10–15:50 Andrea Cappelli (INFN, Florence)
Testing conformal field theory of quantum Hall droplets
15:50–16:30 Andrei Marshakov (Lebedev Institute and ITEP)
First-order string theory and the Kodaira-Spencer equations
16:30–16:50 Coffee break
16:50–17:30 Vyacheslav Spiridonov (JINR)
Elliptic hypergeometry of sypersymmetric dualities
17:30–18:10 Igor Krichever (Landau Institute and Columbia University)
Absolute extremals of integrals for solitonic equations and Whitham theory
18:10–18:50 Vladimir Fateev (LPTA, Montpellier)
Coulomb gas integrals in Conformal Field Theories
19:00–22:00 *Banquet*

CFT, Integrable Models
And
Liouville Gravity

Chernogolovka, 2009

Tuesday June 30, 2009.

CONFERENCE HALL

09:30–10:10 Herman Boos (Wuppertal University)
Fermionic structure of the XXZ model and CFT

10:10–10:50 Sergei Derkachev (Steklov Inst. St. Petersburg)
Yang–Baxter R operators and parameter permutations

10:50–11:10 Coffee break

11:10–11:50 Cyril Malyshev (Steklov Inst. St. Petersburg)
The Correlation Functions of the XXZ Heisenberg Chain in Free Fermion and Strong Anisotropy Limits, and Random Walks of Vicious Walkers

11:50–12:30 Paul Zinn-Justin (LPTMS)
Exactly solvable models of tilings and Littlewood–Richardson coefficients

12:30–13:10 Alexei Starobinsky (Landau Institute)
Infrared dynamics of light quantum fields in the 4-D de Sitter space-time

13:30–14:30 Lunch

I. CONFERENCE HALL

14:30–15:10 Alexander Zamolodchikov (Landau Institute & Rutgers University)
Confining Interaction in 1+1 dimensions

15:10–15:50 Sergei Lukyanov (Landau Institute & Rutgers University)
On mass spectrum in 't Hooft's 2D model of mesons

15:50–16:30 Andrei Bytsko (Steklov Institute, St. Petersburg)
Non-Hermitian spin chains

16:30–16:50 Coffee break

16:50–17:30 Dimitrii Polyakov (Witwatersrand University)
Ground Ring of Alpha-Symmetries and Sequence of RNS String Theories

17:30–18:10 Chihiro Matsui (Tokyo University)
A relation between integrable systems of quantum and classical statistical mechanics

18:10–18:50 Mikhail Yurishchev (IPCP, Chernogolovka)
Fluctuations of entanglement entropy in quantum systems

18:50 *Chandra: The journey of a star*
by Giuseppe Mussardo and Enrico Agapito. Presentation of DVD.

See next page.

II. 2ND FLOOR HALL

14:30–15:10 Leonid Bogdanov (Landau Institute)
Multidimensional integrable hierarchies connected with vector fields

15:10–15:50 Ismagil Habibullin (Math. Institute, Ufa)
Characteristic Lie algebras and classification of Darboux integrable chains

15:50–16:30 Anton Zabrodin (ITEP)
Dyson gas simulation of Laplacian growth: Geometry and integrability

16:30–16:50 Coffee break

16:50–17:30 Alexander Orlov (Institute of Oceanology)
Random Processes and Soliton Theory

17:30–18:10 Khazret Nirov (Wuppertal University)
New solutions to loop Toda systems

18:10–18:50 Valeriy Tolstoy (Moscow University)
Discrete series of irreducible representations for the noncompact quantum algebra $U_q(u(n-1,1))$

CFT, Integrable Models
And
Liouville Gravity

Chernogolovka, 2009

Wednesday July 1, 2009.

CONFERENCE HALL

09:30–10:10 Paul A. Pearce (Melbourne University)
Logarithmic Minimal Models

10:10–10:50 Ilya Tipunin (Lebedev Institute)
Lusztig quantum sl(2) and logarithmic minimal models

10:50–11:10 Coffee break

11:10–11:50 Hitoshi Konno (Hiroshima University)
The elliptic quantum group $U_{q,p}(\widehat{sl}_2)$: formulation and applications

11:50–12:30 Sylvain Ribault (LPTA, Montpellier)
On sl_3 KZ equations and W_3 null-vector equations

12:30–13:10 Vsevolod Adler (Landau Institute)
The tangential map and associated integrable equations

13:30–14:30 Lunch

I. CONFERENCE HALL

14:30–15:10 Azat Gainutdinov (Lebedev Institute)
Logarithmic CFT models with extended symmetry, boundary states, and Verlinde-type formulas

15:10–15:50 Mikhail Bershtein (Landau Institute & IUM)
Physical states in the M(2,3) Minimal Liouville gravity

15:50–16:30 Michael Lashkevich (Landau Institute)
Form factors of descendant operators: Free field construction and reflection relations

II. 2ND FLOOR HALL

14:30–15:10 Sergei Vergeles (Landau Institute)
500-th solution of 2D Ising model

15:10–15:50 Andrei Zotov (ITEP)
Integrable Systems, Monopoles and Modifications of Bundles over Elliptic Curves

15:50–16:30 Andrei Smirnov (ITEP)
Characteristic Classes of Bundles over Elliptic Curves and Integrable Systems

16:30 Coffee break (fourchette)

18:10 The bus to Moscow