The third Russian-Chinese conference on complex analysis, algebra, algebraic geometry and mathematical physics

Conference Program

Wednesday, May 11

10^{00}–10^{30} *Registration*

10^{30}–10^{40} *Opening*

Morning session
  Chairman: Armen Sergeev

10^{40}–11^{30} Xiangyu Zhou (Institute of Mathematics of CAS)
  Recent progress on multiplier ideal sheaves and optimal L^2 extensions

11^{30}–12^{00} Coffee break

12^{00}–12^{50} Dmitry Treschev (Steklov Mathematical Institute of RAS)
  On the inclusion of a diffeomorphism into a flow

13^{00}–13^{40} Alexey Davydov (Lomonosov Moscow State University, Vladimir State University)
  Theory of normal forms of linear second order mixed type PDEs on the plane

14^{00}–15^{00} Lunch

Afternoon session
  Chairman: Xiangyu Zhou

15^{00}–15^{40} Chung Chun Yang (Nanjing University)
  Value distribution theory and its applications to functional equations

15^{50}–16^{30} Sergey Gorchinskiy (Steklov Mathematical Institute of RAS)
  Categorical measures for varieties with finite group actions

16^{30}–17^{00} Coffee break

17^{00}–17^{40} Xiaoping Xu (Institute of Mathematics of CAS)
  Generalizations of the classical theorem on harmonic polynomials

17^{50}–18^{20} Anton Trushechkin (Steklov Mathematical Institute of RAS)
  Perturbative treatment of inter-site couplings in the local description of open quantum networks

18^{30} : *Welcome Party*

Thursday, May 12

Morning session
    Chairman: Vladimir Popov

10^{00}–10^{50} Yuefei Wang (Institute of Mathematics of CAS)
    Dynamics of Newton maps and complexity

10^{50}–11^{20} Coffee break

11^{20}–12^{10} August Tsikh (Siberian Federal University)
    New versions of the Cauchy-Kovalevskaya theorem and the Weierstrass preparation theorem

12^{20}–13^{00} Xiaotao Sun (Institute of Mathematics of CAS)
    Étale fundamental group and D-modules in characteristic $p > 0$

13^{10}–13^{40} Alexey Shchuplev (Siberian Federal University)
    McMullen's formula and a multidimensional analog of the Weierstrass ζ-function

14^{00}–15^{00} Lunch

Afternoon session
    Chairman: Chung Chun Yang

15^{00}–15^{40} Tuen Wai Ng (University of Hong Kong)
    Fermat functional equations revisited

15^{50}–16^{30} Mikhail Katanaev (Steklov Mathematical Institute of RAS)
    On homogeneous and isotropic universe

16^{30}–17^{00} Coffee break

17^{00}–17^{40} Sergei Kozyrev (Steklov Mathematical Institute of RAS)
    Dark states in quantum photosynthesis

17^{40} : *Visit to Laboratory of Popularization and Promotion of Mathematics*
        in Steklov Mathematical Institute

Friday, May 13

12^{00}–16^{00} *Excursion to the Kremlin*
    The bus will leave from the Steklov Mathematical Institute at 12^{00}.

16^{00}–19^{00} *Conference Dinner on board of the ship*
    ATTENTION: You should check in the conference dinner during the Wednesday.
    The ship will leave from the pier "Ustyinskiy most" at 16^{00} and will arrive at the pier
    "Naberezhnaya Tarasa Shevchenko" at 19^{00}.

Saturday, May 14

Morning session
    Chairman: Yuefei Wang

10^{00}–10^{50} Nanhua Xi (Institute of Mathematics of CAS)
    Some infinite dimensional representations of reductive groups with Frobenius maps

10^{50}–11^{20} Coffee break

11^{20}–12^{00} Viktor Kulikov (Steklov Mathematical Institute of RAS)
    On some actions of the symmetric group $\mathbb{S}_4$ on $K3$ surfaces

12^{10}–12^{50} Vladimir Popov (Steklov Mathematical Institute of RAS)
    On the equations defining affine algebraic groups

13^{00}–13^{30} Alexander Znamenskiy (Siberian Federal University)
    A refinement of the Kovalevskaya theorem on analytic solvability of a Cauchy problem

14^{00}–15^{00} Lunch

Afternoon session
    Chairman: August Tsikh

15^{00}–15^{40} Jinsong Liu (Institute of Mathematics of CAS)
    Deformation of circle patterns and its applications

15^{50}–16^{30} Viktor Zharinov (Steklov Mathematical Institute of RAS)
    On the Backlund transformation

16^{30}–17^{00} Coffee break

17^{00}–17^{40} Anatol Odzijewicz (University of Bialystok)
    Groupoids, algebroids and Poisson structures related to W^*-algebras

Sunday, May 15

Morning session
    Chairman: Nanhua Xi

10^{00}–10^{50} Igor Volovich (Steklov Mathematical Institute of RAS)
    Anti-de Sitter/conformal field theory correspondence, black holes and quantum biology

10^{50}–11^{20} Coffee break

11^{20}–12^{00} Siye Wu (National Tsing Hua University)
    Quantisation of Hitchin's moduli space

12^{10}–12^{50} Sergey Suetin (Steklov Mathematical Institute of RAS)
    The Problem of Analytic Continuation and Zero Distribution of Hermite–Padé Polynomials

13^{00}–14^{00} Lunch

Afternoon session
    Chairman: Igor Volovich

14^{00}–14^{40} Xiao Zhang (Institute of Mathematics of CAS)
    Noncommutative Differential Geometry via Deformation Quantization and Applications in Gravity

14^{50}–15^{30} Anna Chugainova (Steklov Mathematical Institute of RAS)
    Stability of stationary solutions of the generalized KdV-Burgers equation

15^{30}–16^{00} Coffee break

16^{00}–16^{40} Denis Osipov (Steklov Mathematical Institute of RAS, National University of Science and Technology "MISIS")
    Distribution spaces of two-dimensional local fields and representations of the discrete Heisenberg group

16^{50}–17^{20} Nikolay Il'in (Steklov Mathematical Institute of RAS)
    On extrema of the objective functional for the problem of ultra-fast generation of single qubit quantum gates