International Conference
REAL AND COMPLEX DYNAMICAL SYSTEMS,
dedicated to Prof. Yulij Ilyashenko's 80-th Birthday

Tsaghkadzor, Armenia, November 20-25, 2023

All the talks and all the meals (except for lunch and dinner at Wednesday, November 22) will take place at **Ripa Hotel,** Tsaghkadzor. If you have any questions or issues feel free to call **Vardan** any time. Armenian phone number +374 55 80 6148. WhatsApp +1 831 6653242. Telegram Vartanbobo007

MONDAY November 20

9:00 - 10:00 Breakfast
8:30 - 10:00 Registration
10:00 - 10:15 Opening
10:15 - 10:55 Dmitry Treschev
Normalization flow
10:55 - 11:25 Coffee
11:25 - 12:05 Raphael Krikorian
Divergence and convergence of Birkhoff Normal Forms
12:15 - 12:45 Sanjeeva Balasuriya
2D invariant manifolds in 3D flows: perturbed locations under general perturbations and instantaneous flux
13:00 - 14:30 Lunch
15:30 - 16:10 Frank Loray (online)
Neighborhoods of curves in complex surfaces
16:20 - 16:50 Sergei Voronin
Degenerated singular points of binary differential equations
16:50 - 17:20 Coffee
17:20 - 18:00 Laurent Stolovitch
On neighborhoods of embedded complextori
18:10 - 18:40 Irina Astashova
Dynamical systems in asymptotic behavior of solutions to higher-order nonlinear differential equations and its asymptotic equivalence
19:00 - 21:00 Dinner

TUESDAY November 21

9:00 - 10:00 Breakfast
10:00 - 10:40 Konstantin Khanin
Typical rotation numbers for families of circle maps with singularities
10:40 - 11:10 Coffee
11:10 - 11:30 Zhaofeng Lin
Gaussian limit of the process of moduli for the Ginibre and hyperbolic ensembles
11:40 - 12:00 Sergei Gorbunov
Speed of convergence of linear functionals in DPP with Bessel kernel
12:10 - 12:40 Alexey Klimenko
Determinantal processes and decomposition of functions into series defined by values in points of a random configuration
13:00 - 14:30 Lunch
15:00 - 15:40 Alexandra Skripchenko
Ergodic properties of certain classes of interval translation mappings
15:50 - 16:20 Armen Bagdasaryan
Optimal Flows in Dynamic Transport Networks and Replicator Dynamical Systems
16:20 - 18:20 Coffee and poster session.
Posters: Timur Bakiev, Ekaterina Chilina, Alexey Glutsyuk, Elena Nozdrinova, Polina Shaikhullina, Danil Shubin, Ilya Tolstukhin, Ekaterina Tsaplina.
18:45 - 20:15 Dinner
20:30 - 21:10 Alexander Bufetov
Babylonian lunar theory (informal evening lecture)

WEDNESDAY November 22

8:50 - 9:40 Breakfast
9:40 - 10:20 Marco Mazzucchelli
Surfaces of section for geodesic flows of closed surfaces
10:20 - 10:50 Coffee
10:50 - 11:30 Sergei Tabachnikov
Bicycling geodesics and elastic curves

Excursion (or hike). During it, lunch and dinner will be organized.

THURSDAY November 23

9:00-9:50 Breakfast
9:50 - 10:30 Sergei Pilyugin
Shadowing in hyperbolic and nonhyperbolic dynamical systems
10:40 - 11:10 Andrey Dukov
Multiple limit cycles that appear from hyperbolic polycycles
11:10 - 11:40 Coffee
11:40 - 12:10 Dmitry Filimonov
Singularities in generic two-parameter families of vector fields on 2-sphere
12:20 - 12:50 Yury Kudryashov
Computer-readable proofs and dynamical systems
13:00 - 14:30 Lunch
15:30 - 16:10 Bertrand Deroin (online)
TBA
16:10 - 16:40 Coffee
16:40 - 17:20 Yuli Ilyashenko
Computer-readable proofs and dynamical systems
18:00 - 19:00 Duduk concert
19:00 Banquet

FRIDAY November 24

9:00 - 10:00 Breakfast
10:00 - 10:40 Mikhail Lyubich
Structure of Feigenbaum Henon maps
10:50 - 11:20 Nataliya Goncharuk
Renormalization operators and Arnold tongues
11:20 - 11:50 Coffee
11:50 - 12:30 Artur Ishkhanyan
Heun-function solutions of the Schrodinger equation
13:00 - 14:30 Lunch
15:00 - 15:40 Anton Gorodetski
Dynamical Methods in Spectral Theory of Ergodic Schrodinger Operators
15:50 - 16:30 Victor Kleptsyn
Holder regularity of stationary measures
16:30 - 17:00 Coffee
17:00 - 17:40 Melvin Yeung (online)
An introduction to the Theorem of Dulac
17:50 - 18:30 Askold Khovanskii (online)
Fibered toric varieties
18:45 - 20:15 Dinner

SATURDAY November 25

8:50 - 9:40 Breakfast
9:40 - 10:20 Olga Pochinka
Homeomorphisms on three-dimensional manifolds with pseudo-Anosov attractors and repellers
10:30 - 11:00 Elena Gurevich
Framed link as topological invariant of polar flows on four-dimensional manifolds
11:00 - 11:30 Coffee
11:30 - 12:00 Ivan Shilin
Attractors with non-invariant interior
12:10 - 12:50 Vladlen Timorin
Aperiodic points for dual billiards
12:50 Closing
13:00 - 14:30 Lunch
18:45 - 20:15 Dinner