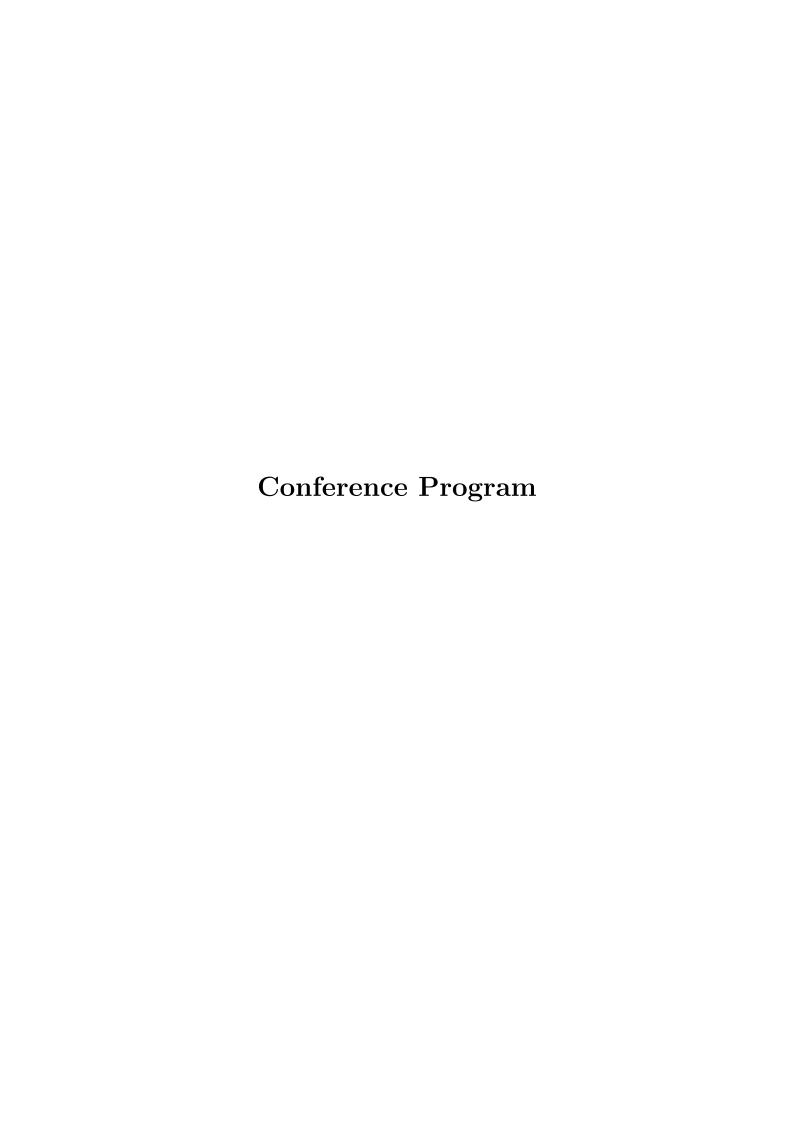
Analytic Theory of Differential and Difference Equations

Online conference dedicated to the memory of Andrey Bolibrukh

January 28 – February 3, 2021



January 28, Thursday Opening day

ATTENTION: the schedule is set to local Moscow time (=UTC+3)

| 17.00 | Opening Dmitrii Treschev | |
|------------------------------|---|--|
| $Chairman:\ Claude\ Mitschi$ | | |
| 17.10 | Frank Loray Projective structures and neighborhoods of rational curves | |
| 18.00 | $Questions + Small\ break$ | |
| 18.30 | Askold Khovanskii On solvability of linear differential equations by quadratures | |
| 19.20 | $Questions + Small\ break$ | |
| 20.00 | Jacques-Arthur Weil Darboux transformations for orthogonal differential systems and differential Galois theory | |
| 20.30 | Questions | |

January 29, Friday

Chairman: Sergei Abramov

| 12.00 | Andrey Mironov On commuting difference operators |
|-------|--|
| 12.50 | $Questions + Small\ break$ |
| 13.30 | Yousuke Ohyama q -Stokes phenomenon of basic hypergeometric equations and the Painlevé equations |
| 14.20 | $Questions + Large\ break$ |
| 17.00 | Jorge Mozo Nilpotent singularities of foliations of generalized Poincaré— Dulac type |
| 17.30 | $Questions + Small\ break$ |
| 18.00 | Ilya Kossovskiy Real-analytic coordinates for smooth strictly pseudoconvex CR structures |
| 18.50 | $Questions + Small\ break$ |
| 19.30 | Laurent Stolovitch Geometry of hyperbolic Cauchy–Riemann singularities and KAM-like theory for holomorphic involutions |
| 20.20 | Questions |

January 30, Saturday Memorial day

Chairman: Alexey Glutsyuk

17.00 **Armen Sergeev**

Working together with Andrey Bolibrukh

Claude Mitschi

Memories of Andrey Bolibrukh's time in Strasbourg

Vladimir Roubtsov

Few very personal memoirs about meetings with Andrei

Yulij Ilyashenko

Andrey Bolibrukh: from a graduate student to academician

18.30 Claude Sabbah

Andrey Bolibrukh and the (Miwa) theta divisor

February 1, Monday

Chairman: Frank Loray

| 17.00 | Marta Mazzocco Quantum Painlevé monodromy manifolds and Sklyanin- Painlevé algebra, I |
|-------|--|
| 17.50 | $Questions + Small\ break$ |
| 18.30 | Vladimir Roubtsov Quantum Painlevé monodromy manifolds and Sklyanin— Painlevé algebra, II |
| 19.20 | $Questions + Small\ break$ |
| 20.00 | Yulia Bibilo Application of Painlevé 3 equations to dynamical systems on 2-torus modeling Josephson junction |
| 20.50 | Questions |

February 2, Tuesday

Chairman: Vladimir Roubtsov

| 12.00 | Davide Guzzetti Isomonodromic Laplace transform with coalescing eigenvalues and confluence of Fuchsian singularities | |
|--------------------------|--|--|
| 12.50 | $Questions + Small\ break$ | |
| 13.30 | Claude Sabbah Isomonodromic degenerations of irregular singularities | |
| 14.20 | $Questions + Large\ break$ | |
| Chairman: Marta Mazzocco | | |
| 17.00 | Vasilisa Shramchenko Algebro-geometric solutions to the 2×2 Schlesinger systems | |
| 17.50 | $Questions + Small\ break$ | |
| 18.30 | Vladimir Dragović Dynamics of extremal polynomials, isomonodromic and isoharmonic deformations | |
| 19.20 | Questions | |

February 3, Wednesday Closing day

 $Chairman:\ Jacques-Arthur\ Weil$

| 17.00 | Alberto Lastra On Gevrey asymptotics for linear singularly perturbed equations with linear fractional transforms |
|-------|--|
| 17.30 | $Questions + Small\ break$ |
| 18.00 | Javier Sanz Right inverses for the asymptotic Borel map in ultraholomorphic classes on sectors |
| 18.30 | $Questions + Small\ break$ |
| 19.00 | Changgui Zhang On the vanishing of coefficients of the powers of a theta function |
| 19.30 | Questions + Closure |

Video-posters

(available at any time during the conference)

Sergei Abramov

Sequences in the role of coefficients of difference operators

Aset Durmagambetov

New estimates of the potential in the Schrödinger equation

Renat Gontsov

Convergence of generalized power series solutions of q-difference equations: the case without small divisors

Gerardus Helminck

Darboux transformations of the dKP hierarchy and its strict version

Arsenii Shcherbakov

Uniformization of holomorphic foliations with hyperbolic leaves

Tsvetana Stoyanova

Stokes matrices of a reducible equation with two irregular singularities of Poincaré rank 1 via monodromy matrices of a reducible Heun type equation