

International scientific conference
«Algebraic and geometric methods of analysis»
30 May - 4 June, 2018, Odesa, Ukraine

Odesa National Academy of Food Technologies,
Kanatna str. 112, building B, 3-rd floor, room B-301

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Wednesday, 30 May

09:00 – 11:00 **Registration**

11:00 – 11:05 **Opening**

Chairman: Prishlyak Aleksandr

11:15-11:50 **Vladimir Kisil** (England) *An extension of Mobius-Lie geometry with conformal ensembles of cycles*

12:00-12:35 **Koji Matsumoto** (Japan) *Warped product semi-slant submanifolds in a locally conformal Kaehler manifold, II*

12:40-13:00 **Анатолій Сердюк** (Україна) *Наближення інтерполяційними тригонометричними поліномами в метриках просторів L^p на класах періодичних цілих функцій*

Lunch

14:30 – 14:50 **Richard Webb** (United Kingdom) *The arc complex has no $CAT(0)$ metric*

14:55 – 15:20 **Vsevolod Martseniuk** (Ukraine) *Application the p -adic topology on Z for study determinants of infinite order with integer coefficients*

15:25 – 15:45 **Tetiana Obikhod** (Ukraine) *Topological invariants and microscopic quantum description of charged black holes*

15:55 – 16:15 **Serhii Bardyla** (Ukraine) *Semitopological graph inverse semigroups*

16:25 – 16:45 **Nadiia Konovenko** (Ukraine) *Rational differential invariants for oriented primary visual cortex*

Welcome party

Thursday, 31 May

Chairman: Sergiy Maksymenko

10:00 – 10:35 **Piotr Mopmul** (Poland) *What points in Goursat Monster Tower are strongly nilpotent*

10:40 – 11:15 **Alexandr Prishlyak** (Ukraine) *Functions with three critical points on closed non-oriented 3-manifolds*

11:25 – 12:00 **Francisco Bulnes** (México) *Mukai-Fourier Transform in Derived Categories to Solutions of the Field Equations: Gravitational Waves as Oscillations in the Space-Time Curvature/Spin IV*

Coffee break

12:25 – 13:00 **Olga Pochinka** (Russia) *Classification of omega-stable flows on surfaces*

13:05 – 13:40 **Dmytro Bolotov** (Ukraine) *Foliations with leaves of non-positive curvature and bounded total curvature on closed 3-Manifolds*

Lunch

15:00 – 15:20 **Viacheslav Herasymov** (Ukraine) *In a natural topological sense a typical linear nonhomogeneous differential equation in the ring $Z[[x]]$ has no solutions from $Z[[x]]$*

15:25 – 15:45 **Alex Stokolos** (USA) *Bellman function, degenerated Monge-Ampere equation and geometric maximal operator*

15:50 – 16:10 **Mustafa Kansu** (Turkey) *Macroscopic Electromagnetism via Complex Quaternions*

Coffee break

16:35 – 16:55 **Enzo Bonacci** (Italy) *Algebraic and geometric questions about a 6D physics* (Skype lection)

17:00 – 17:20 **Черевко Євген, Чепурна Олена** (Україна) «Псевдо-вайсманові многовиди та їх приклади»

17:25 – 17:45 **Юлія Федченко** (Україна) *Про P -деформації поверхонь зі стаціонарним відхиленням від дотичної площини*

17:50 – 18:10 **Надія Худенко** (Україна) *Достатні умови стратегічної оптимальності для задачі Больца.*

Friday, 1 June

Chairman: Alexandr Prishlyak

10:00 – 10:35 **Sergiy Maksymenko** (Ukraine) *Deformation of functions on orientable surfaces by symplectic diffeomorphisms*

10:40 – 11:15 **Barkat Bhayo** (Pakistan) *On inequalities of generalized complete elliptic integrals*

11:25 – 12:00 **Николай Глазунов** (Україна) *Class groups of rings with divisor theory, L -functions and moduli spaces*

Coffee break

12:25 – 13:00 **Марина Гречнєва, Поліна Стеганцева** (Україна) *Відновлення поверхні з краєм простору Мінковського за її грассмановим образом*

13:00 – 13:25 **Omer Gok** (Turkey) *On b -morphisms*

Lunch

Wine tasting

Saturday, 2 June

Chairman: Alexandr Prishlyak

11:00 – 10:35 **Сергей Покась** (Украина) *Группа Ли движений в симметрическом римановом пространстве 1-го класса*

11:45 – 12:20 **Ігор Потапенко** (Україна) *Інфінітезімальні деформації поверхонь з заданою варіацією ріманової зв'язності*

12:25 – 13:00 **Aleksandr Savchenko** (Ukraine) *Fuzzy metrization of the spaces of idempotent measures*

13:05 – 13:25 **Yildiz Sebnem** (Turkey) *An extension on localization property of Fourier series*

Coffee break

13:50 – 14:10 **Ruslan Skuratovskii** (Ukraine) *The commutator and centralizer of Sylow subgroups of alternating and symmetric groups, its minimal generating set*

14:15 – 14:35 **Болотова Татьяна, Болотов Дмитрий** (Украина) *Геометрическая интерпретация законов физиологического развития растений*

15:00 Poster section

- **Aygor Nilgun, Burhazade Hulya** (Turkey) *Secondary school students' misconceptions about linear algebra*
- **Aygor Nilgun, Burhazade Hulya** (Turkey) *A study on the teaching methods in determinants*
- **Gül Erdal** (Turkey) *On The Second Regularized Trace Formula for a Differential Operator with Unbounded Coefficients*
- **Yaman Damla** (Turkey) *Order continuity properties of lattice ordered algebras*
- **Wiśniewski Damian** (Poland) *The behaviour of weak solutions of boundary value problems for linear elliptic second order equations in unbounded cone - like domains*
- **Bodzioch Mariusz** (Poland) *A criss-cross model of tuberculosis for heterogenous population*