International scientific conference
# «Algebraic and geometric methods of analysis»

May 28 - June 3, 2019, Odesa, Ukraine

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

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## Wednesday, 29 May

08:30–09:00 **Registration**

09:00–09:15 **Opening**

Chairman: _Sergiy Maksymenko_

09:15-09:55 _Alexander Prishlyak, Andriy Prus._ Morse flows on 2- and 3-manifolds

10:00-10:40 _Anatoliy Serdyuk._ Approximation of periodic functions by interpolation trigonometric polynomials

**Coffee break**

11:05-11:25 _Olga Olshevska._ Tools for evaluation the scientist's activities taking into features of References

11:30-11:50 _Oleg Gutik._ The semigroup of star partial homeomorphisms of a finite dimensional Euclidean space

11:55-12:15 _Oleksandra Sobol._ Extensions of semigroups by symmetric inverse semigroups of a bounded finite rank

12:20-12:40 _Omer Gok._ Extensions of almost orthosymmetric lattice bimorphisms

**Lunch**

Chairman: _Anatoliy Serdyuk_

14:00-14:40 _Veselin Rmuš._ Construction of squaring the circle

14:45-15:05 _Viacheslav Herasymov._ Some many-dimensional extremal geometric problems

15:10-15:30 *Yaacov Kopeliovich.* On the Thomae formula for Abelian covers and related questions

15:35-15:55 *Julia Bernatska.* Derivative Thomae formula for singular half-periods

**Wine tasting**

## Thursday, 30 May

Chairman: <u>*Prishlyak Aleksandr*</u>

09:00-9:40 *Alexander Batkhin.* Quantum symmetrical calculus and singularities of quasi-discriminant varieties

09:50-10:30 *Sergiy Maksymenko.* Diffeomorphisms preserving Morse-Bott foliations

**Coffee break**

11:00-11:40 *Artem Pulemotov.* The Ricci iteration on homogeneous spheres

11:45-12:25 *Michel Vittot.* A geometrical version of the Maxwell-Vlasov Hamiltonian structure

**Lunch**

14:00 - 15:00 **Excursion to Laboratory of Mechatronics and robotics of ONAFT**

Chairman: <u>*Artem Pulemotov*</u>

15:00-15:40 *Alexander Bruno.* Algorithms for solving an algebraic equation

15:45-16:05 *Valery Dryuma.* On the equation of the homologous sphere of Poincare

16:10-16:50 *Serhii Samokhvalov.* Riemann-Klein antagonism and problem of energy in general relativity

16:55-17:15 *Igor Vlasenko.* Internal mappints

# Friday, 31 May

Chairman: *Alexander Batkhin*

09:00-09:40 *Marek Wójtowicz.* On congruent numbers

09:45-10:25 *Nikolaj Glazunov.* Algebraic-geometric aspects of function field analogue of abelian varieties

10:30-10:50 *Marina Grechneva, Polina Stegantseva.* The properties of the surface of Minkowsky space, which determine the type of its Grassman image

**Coffee break**

11:15-11:35 *Koji Matsumoto.* A flat $(CHR)_3$-curvature tensor in a trans-Sasakian manifold

11:45-12:25 *Tetiana Obikhod.* Gromov-Witten invariants and identification of the energy levels of solitonic states

**Lunch**

Chairman: *Marek Wójtowicz*

14:00-14:20 *Serhii Favorov.* Discrete sets, discrete measures, quasicrystals Fourier, pure crystals

15:00 **Excursion: Paleontological Museum of the Odessa National University of I. I. Mechnikov**

## Saturday, 1 June

Chairman: <u>*Alexander Prishlyak*</u>

10:00-10:40 *Aleksandr Savchenko.* On generalized spaces of persistence diagrams

10:45-11:25 *Сергей Покась, Алина Крутоголова.* Инфинитезимальные преобразования в симметрическом римановом пространстве 1-го класса $V_n$

**Coffee break**

12:00-12:20 *Надежда Коновенко.* Проективная классификация рациональных функций

12:25-12:45 *Юлія Федченко.* Про P-деформації поверхонь обертання

12:50-13:10 *Ирина Курбатова, Инна Сикаченко.* О построении псевдоримановых пространств с $f$-структурой, находящихся в каноническом $2F$-планарном отображении II типа

13:15-13:35 *Евген Черевко.* Конформні та геодезичні відображення на Річчі-симетричні простори