Приложение 4

Научная программа IX-й Международной конференции «Солитоны, коллапсы и турбулентность: достижения, развитие и перспективы» в честь 80-летнего юбилея академика РАН В.Е. Захарова

Понедельник 05.08.2019 (13 докладов)

Тип доклада (пленарный, устный, стендовый)	**ФИО докладчика**	**Название доклада**
Пленарный	Alexander Mikhailov	Pre-Hamiltonian, Hamiltonian and recursion operators for differential-difference equations
Пленарный	Alan Newell	Pattern Universes
Пленарный	Francesco Calogero	Algebraically solvable systems of nonlinear ODEs (in continuous and discrete time)
Пленарный	Sergei K. Turitsyn	Solitons in fibre communication channels and lasers
Устный	Vladimir Yankov	From Solitons and Collapses to Hierarchy of Attractors
Устный	Petr Grinevich, Paolo-Maria Santini	Periodic NLS Cauchy problem for the rogue waves
Устный	Victor Novokshenov	Generalized Hermite polynomials and monodromy-free potentials
Устный	Nikolai Zubarev, Evgeny Karabut, Elena. Zhuravleva	Formation of singularities on the free surface of an ideal fluid in the absence of external forces and capillarity
Устный	Sergei I. Badulin, Vladimir E. Zakharov	The dissipation of wind-driven waves and the generalized Phillips spectra
Устный	Victor Ruban	Long-lived quantum vortex knots and links in a trapped Bose-Einstein condensate
Устный	Miguel Bustamante	Exact discrete resonances in the Fermi-Pasta-Ulam-Tsingou system
Стендовый	Victor Efimov, Alesia Orlova	Experimental investigation of propagation of second sound probe pulses in medium with quantum turbulence
Стендовый	O.V. Zubareva, E.A. Kochurin, N.M. Zubarev	Nonlinear dynamics of the free charged surface of an ideal fluid; Formation of bubbles

Вторник 06.08.2019 (14 докладов)

Тип доклада (пленарный, устный, стендовый)	**ФИО докладчика**	**Название доклада**
Пленарный	Paolo Maria Santini	The theory of rogue waves at work in a nonlinear optics experiment
Пленарный	Roger Grimshaw	Solitary wave trains and undular bores in the variable coefficient Korteweg-de Vries equation
Пленарный	Anatoly Kamchatnov	Dispersive shock wave theory for non-integrable equations
Пленарный	Gregory Falkovich	Information capacity of turbulent cascade
Устный	Leonid Bogdanov	Multidimensional dispersionless integrable systems -- new developments
Устный	Dmitry V. Skryabin	Lugiato-Lefever model in the context of frequency comb generation
Устный	Vladimir Gerdjikov	On dressing factors and soliton soutions of 2-dimensional Toda field theories
Устный	Iasonas Hitzazis	The Fokas Method and Integrable Nonlinear PDEs in Time-Dependent Domains
Устный	M. Kopae Kamalian, A. Vasylchenkova, D. Shepelsky, J. Prilepsky, S. Turitsyn	A fibre-optic communication system using Inverse scattering transform based on solving a Riemann-Hilbert problem
Устный	Alexander Korotkevich	Inverse cascade of gravity waves in the presence of condensate: numerical results and analytical explanation
Устный	Karima Khusnutdinova	The effects of the shear flows on surface and internal ring waves
Устный	Alexandre I. Dyachenko	New Integrals of Motion for Water Waves
Стендовый	V.A. Koutvitsky, E.M. Maslov	Gravitational redshift of light in a breather-like dark matter halo
Стендовый	Artur Orlov	Decay of large-scale two-dimensional coherent vortex.

Среда 07.08.2019 (14 докладов)

Тип доклада (пленарный, устный, стендовый)	**ФИО докладчика**	**Название доклада**
Пленарный	Boris Konopelchenko	Universal parabolic regularization of the gradient catastrophes for the Burgers-Hopf equation and Jordan chain
Пленарный	Jens Juul Rasmussen	Intermittent particle and energy transport in magnetically confined plasmas – the role of coherent structures
Пленарный	Andrei Pogrebkov	Induced dynamics
Пленарный	Dmitry Talalaev	Discrete dynamics on electrical networks and integrable systems
Устный	Pavlos Kassotakis	Invariants in separated variables: Yang-Baxter, entwining and transfer map
Устный	George Papamikos	Set theoretical solutions of the Yang-Baxter equation and their associated integrable maps
	Leonid Piterbarg	Hamiltonian description of vortex systems
Устный	Benno Rumpf	Ensemble dynamics and the emergence of correlations in wave turbulence in one and two dimensions
Устный	A.A.Balakin, G.M. Fraiman, S.A. Skobelev	Coherent propagation and compression of laser pulses in optical multi-core fiber
Устный	Georgi Grahovski	On the derivative nonlinear Schrödinger equation related to symmetric spaces
Устный	Tatiana Talipova	Breathers in stratified fluid: analytical results and numerical modeling
Устный	Evgeny Ferapontov	Integrable Lagrangians and Picard modular forms
Стендовый	Boris Bychkov	Polynomial graph invariants and linear hierarchies
Стендовый	Leonid Kalyakin	Asymptotics of the dynamic saddle-node bifurcation

Четверг 08.08.2019 (14 докладов)

Тип доклада (пленарный, устный, стендовый)	ФИО докладчика	Название доклада
Пленарный	Efim Pelinovsky	Tsunami waves: nonlinear physics and geophysical application
Пленарный	Jerry Bona	Higher-order, Hamiltonian models for surface water waves.
Пленарный	Nikolay N. Rosanov, S.V . Fedorov, Veretenov	Topological Reactions and transformations of 3D-tangle laser solitons
Устный	Vladimir Mezentsev, Irina Vaseva, Alexander Rubenchik, Mikhail Fedoruk, and Sergei Turitsyn	Beam shaping due to cladding induced self-focusing for applications in ultra-high power fiber lasers
Устный	Victor Kontorovich	Why is the microstructure of the main pulse and interpulse of the pulsar in Crab so strikingly different
Устный	Olga Kosareva	Nonlinear transparency window for ultraintense femtosecond laser pulses in the atmosphere
Устный	Dmitry Skryabin	Lugiato-Lefever model in the context of frequency comb generation in microresonators
Устный	Georgy Alekseev	On the solution generating methods for Einstein's field equations in General Relativity
Устный	Alexey Balakin	Raman compression of laser pulses in wedge-shaped jet plasma
Устный	Jinbing Chen, Dmitry Pelinovsky	Tsunami waves: nonlinear physics and geophysical application
Устный	Victor Shrira	Novel essentially 2d evolution equations and collapses in boundary layers
Устный	Andrey Gelash, Dmitry Agafontsev, Vladimir Zakharov, Gennady El, Stephane Randoux, Pierre Suret	Soliton gas model for description of modulation instability development
Устный	Stefan Wabnitz	Hydrodynamic 2D turbulence and spatial beam condensation in multimode optical fibers
Устный	Boris Sturman and Evgeny Podivilov	Frequency comb solutions for quadratic nonlinearity

Пятница 09.08.2019 (14 докладов)

Тип доклада (пленарный, устный, стендовый)	ФИО докладчика	Название доклада
Пленарный	Frederic Dias	Rogue waves, instabilities and analogues in optics and oceanography
Пленарный	Alejandro Aceves	Spatio-temporal dynamics in nonlinear optics: Multi-color light filaments, vortices and other patterns and the mathematics behind it
Пленарный	Evgeny Kuznetsov	Expansion of the strongly interacting superfluid Fermi gas: symmetries and self-similar regimes
Пленарный	Vladimir Zakharov	Analytical theory of wind driven ocean waves
Устный	F.N. Rybakov, A.B. Borisov	Three-dimensional structures in helimagnetics
Устный	Aleksander Stefanov, Vladimir Gerdjikov, Mladenov	MKdV equations related to Kac-Moody algebras of type $D_4^{(k)}$
Устный	D. S. Agafontsev, S. Randoux, P. Suret	Generation of rogue waves from random wavefield of high nonlinearity
Устный	Ildar Gabitov	Nonlinear effects in metamaterials
Устный	Dmitry Kachulin, Andrey Gelash, Alexander Dyachenko, Vladimir Zakharov	Interactions of coherent structures on the surface of deep water
Устный	Yury Stepanyants	Helical solitons and their interactions
Устный	Nail Inogamov	Physics of laser ablation and modern technologies
Стендовый	Sergei Lukaschuk	Experimental Detection of Three Wave Interactions in Capillary Surface Waves
Стендовый	V. Krasnoselskikh, I. Vasko	On the role of the fan instability in formation of electron distribution in the solar wind
Стендовый	Sergei Dremov, Dmitry Kachulin, Alexander Dyachenko	Soliton interactions in the system of supercompact equations for counter propagating 1D waves

Итого: 69 докладов

Председатель программного комитета **Alan Newell**

February 20th, 2019.