CONFERENCE OPENING. PLENARY

Wednesday, January 23, 2019, 10.00 Room 406

1. KASTELIK J.-C.
   Polytechnic University of Hauts-de-France, Valenciennes, France
   Wavelength characterization of a tunable acousto-optic interferometer
2. LINDE B.B.J.
   University of Gdansk, Poland
   Experimental research of liquid by acoustic and photoacoustic methods
3. POPOV S.M., BUTOV O.V., KOLOSOVSKIY A.O., ISAEV V.A., VOLOSHIN V.V., VOROB'EV I.L., VYATKIN M.Yu., FOTIADI A.A.[1], CHAMOROVSKIY Yu.K.
   Fryazino Branch of Kotel'nikov Institute of Radioengineering and Electronics of RAS
   [1]Ulyanovsk State University
   Optical fiber with arrays of FBGS for photonics applications
4. DEDIU V.A., BERGENTI I.
   Institute of Nanostructured Materials of the National Research Council, Bologna, Italy
   Spin polarized electrodes for organic light emitting diodes

POSTERS 1

Wednesday, January 23, 2019, 12.00 Room 406

POSTERS 2

Wednesday, January 23, 2019, 12.00 Room 407

Meeting 1

Wednesday, January 23, 2019, 13.00 Room 406

5. YUSHKOV K.B., CHAMPAGNE J.[1], MOLCHANOV V.Ya.
   National University of Science and Technology "MISIS", Moscow
   [1]Polytechnic University of Hauts-de-France, Valenciennes, France
   Phase object visualization with a hyperspectral acousto-optical method
6. BORITKO S.V., KARANDIN A.V.
   Scientific and Technological Center of Unique Instrumentation of the RAS, Moscow
   The use of acoustoptic diffraction during the sharp periodic control voltagephaseswitching for differential spectroscopy
7. KOTOV V.M., SHKERDIN G.N., AVERIN S.V.
   Fryazino Branch of Kotel'nikov Institute of Radioengineering and Electronics of RAS
   Pulse modulation of multicolor radiation by means of acousto-optic Bragg diffraction
8. KUPREYCHIK M.I., BALAKSHY V.I.
   Lomonosov Moscow State University
   Regions of acousto-optic interaction with low angular and frequency selectivity have been investigated for the case of the diffraction in periodically inhomogeneous acoustic field in biaxial crystals
9. PROKLOV V.V., LUGOVSKOI A.V.
   Fryazino Branch of Kotel'nikov Institute of Radioengineering and Electronics of RAS
   About the remote objects identification method based on the matched acoustic optical filtration of spectral signals
10. MACHIKHIN A.S.[1,2], KOZLOV A.B.[1,3]., KHOKHLOV D.D.[1,2], POZHAR V.E.[1], BORITKO S.V.[1]
    [1]Scientific and Technological Center of Unique Instrumentation of the RAS, Moscow
    [2]National Research University "Moscow Power Engineering Institute"
    [3]POLYUS Research Institute of M.F. Stelmakh, Moscow
    Analysis of a transfer function of a wide-aperture acousto-optic tunable filter in the linear frequency modulation mode
11. ROGOZHNIKOV G.S., ROMANOV V.V., YUSHKOV K.B.[1]
    All-Russian Research Institute of Experimental Physics, Sarov, Nizhny Novgorod region
    [1]National University of Science and Technology "MISIS", Moscow
    Distributed free-space optical net for secure communications
12. ARTEMOV E.V.[1,2], KOPAEV I.A.[2], NANII O.E.[1,2], TRESHIKOV V.N.[2]
    [1]Lomonosov Moscow State University
    [2]T8 Ltd, Moscow
    Pulse electrooptic compositional modulator with frequency shift
13. TELESHEVSKI V.I., BUSHUEV S.V., GRISHIN S.G.[1]
    Moscow State University of Technology (Stankin)
    [1]National Research Centre "Kurchatov Institute", Moscow
    Method of phase shift's electronic control in laser interference measurement systems
14. PODLESNAYA A.S.[1], LUKINYKH S.N.[1], NANII O.E.[1,2], TRESHIKOV V.N.[1]
    [1]T8 Ltd, Moscow
    [2]Lomonosov Moscow State University
    Investigation of linear cross noises in fiber optical systems of communication
15. IVANOV S.I., LAVROV A.P., SAENKO I.I.
    Peter the Great Saint-Petersburg Polytechnic University
    Expanding the possibility of broadband signal sources direction finding in microwave photonic beamforming system for linear PAA
16. ZEMTSOV D.S.[1,2], ZLOKAZOV E.Yu.[1], NEBAVSKIY V.A.[1], STARIKOV R.S.[1], KHAFIZOV I.Zh.[1,2]
    [1]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
    [2]Scientific and Technical Centre "Module", Moscow
    Pseudorandom photonic analog-to-digital convertor data processing

Meeting 2

Wednesday, January 23, 2019, 13.00 Room 407

17. DEGTEREV A.E., EREMEEV M.A., MIKHAILOV I.I., LAMKIN I.A., TARASOV S.A.
Saint-Petersburg State Electrotechnical University "LETI"
Research of light-emitting structures, containing organic layers and colloidal quantum dots
18. GORBYAK V.V., SIDOROV A.I.
ITMO University, Saint Petersburg
Self-focusing of the continuous laser UV-radiation in the silver-containing silicate glass
19. ELOPOV A.V.[1], KARPOV O.N.[2], ZAYTSEV V.B.[1], ZHIGUNOV D.M.[3], SHANDRYUK G.A.[2], EZHOV A.A.[1,2], MEREKALOV A.S.[2], GOLOVAN L.A.[1]
[1]Lomonosov Moscow State University
[2]A.V. Topchiev Institute of Petrochemical Synthesis of the RAS, Moscow
[3]Skolkovo Institute of Science and Technology, Moscow region
Spectra and kinetics of photoluminescence of cadmium selenide quantum dots embedded into liquid-crystal polymer matrix
20. MIS'KEVICH A.I.[1,2], PODKOPAEV A.V.[1,3]
[1]Institute for Physics and Power Engineering named after A.I. Leypunsky, Obninsk, Kaluga region
[2]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[3]Obninsk Institute of Atomic Energy NRNU MEPHI, Kaluga region
Luminescent characteristics of high density gas mixtures Ar-Xe-$C_2HBrClF_3$ excited by products of nuclear reaction 235U
21. SMIRNOV M.S., BUGANOV O.V.[1], TIKHOMIROV S.A.[1], OVCHINNIKOV O.V., ZVYAGIN A.I., GREVCEVA I.G.
Voronesh State University
[1]B.I. Stepanov Institute of Physics of NAS of Belarus, Minsk
Femtosecond dynamics of electronic excitations in hybrid associates based on CdS colloidal quantum dots
22. KORSHUNOV V.M.[1,2], AMBROZEVICH S.A.[1,2], TAIDAKOV I.V.[1], GORYACHIY D.O.[1]
[1]Lebedev Physical Institute of the RAS, Moscow
[2]Bauman Moscow State Technical University
Influence of fluorination of the carbon chain in ligand environment on luminescence of Eu(III) organic compounds
23. ZVYAGIN A.I., PEREPELITSA A.S., SMIRNOV M.S., OVCHINNIKOV O.V.
Voronesh State University
Nonlinear-optical properties of the associates of colloidal quantum dots $Zn_{0.5}Cd_{0.5}S$ and molecules azure A
24. SOKOLOVSKAYA O.I., TKACHENKO N.B.
Lomonosov Moscow State University
Effect of light elastic scattering on photon lifetime and Raman scattering efficiency in suspension
25. EPIFANOV E.O., SHUBNIY A.G., MINAEV N.V.
Institute of Photonic Technologies – branch of FSRC «Crystallography and Photonics» of the RAS, Troitsk
Obtaining silver nanoparticles by method of laser ablation in supercritical CO_2 media and its implementation in porous materials
26. IVANOVA A.K.[1,2], IONIN A.A.[2], KUDRYASHOV S.I.[2]
[1]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[2]Lebedev Physical Institute of the RAS, Moscow
Formation of hybrid silicon-gold nanoparticles by method of nanosecond laser ablation in liquid
27. SHUBNIY A.G., EPIFANOV E.O., MINAEV N.V., TSVETKOV M.Yu.
Institute of Photonic Technologies – branch of FSRC «Crystallography and Photonics» of the RAS, Troitsk
Optical materials microstructuring by wet laser-induced etching
28. MKRTYCHEV O.V.
Belgorod V.G. Shukhov State Technology University, Novorossiisk Branch
Study of interaction of radiation with a system of plane-parallel layers by means of recurrent equations

Meeting 3

Wednesday, January 23, 2019, 16.00 Room 406

29. POPOVA A.V., GONCHAROVA P.S., SYUY A.V., LIVASHVILI A.I., KIREEVA N.M., SAVICH D.E., KRISHTOP V.V.
Far Eastern State Transport University, Khabarovsk
Experimental measurement of thickness of anisotropic plate by interference-polarization method
30. TRETIAKOV S.A., KAPLUNOV I.A., KOLESNIKOV A.I., IVANOVA A.I.
Tver State University
Influence heating on the profile of surface and the optical transmission of single crystals of germanium
31. ALESHINA L.A., SIDOROVA O.V., KADETOVA A.V., SIDOROV N.V.[1], TEPLYAKOVA N.A.[1], PALATNIKOV M.N.[1]
Petrozavodsk State University
[1]I.V. Tananaev Institute of Chemistry and Technology of Rare Elements and Mineral Raw Materials of Kola Science Center of the RAS, Apatity, Murmansk region
The superstructure caused by defects in nonlinear optical lithium niobate crystals
32. ARTEMOV D.E.[1,2], SCHETININ A.V.[2], NANII O.E.[1,2], TRESHIKOV V.N.[2]
[1]Lomonosov Moscow State University
[2]T8 Ltd, Moscow
Effect of polarization of an optical carrier on the operation of an Mach-Zehnder electro-optical modulator on lithium niobate
33. MOLCHANOVA A.D.[1], KUZMIN N.N.[1,2], BOLDYREV K.N.[1]
[1]Institute for Spectroscopy of the RAS, Troitsk
[2]Lomonosov Moscow State University
Investigation of the absorption spectra of copper metaborate CuB_2O_4 in magnetic fields of Faraday geometry
34. DOLGANOV P.V.[1], BAKLANOVA K.D[1,2], DOLGANOV V.K.[1]
[1]Institute of Solid State Physics of the RAS, Chernogolovka
[2]National Research University Higher School of Economics, Moscow
Spectral characteristics of one-dimensional and three-dimensional liquid-crystalline photonic crystals

35. MASHCHENKO V.I.[1], SITNIKOV N.N.[2,3], ERMAKOVA M.V.[1], KHABIBULLINA I.A.[2], SHELYAKOV A.V.[3], BELYAEV V.V.[1]
[1]Moscow Region State University, Moscow
[2]Keldysh Research Center, Moscow
[3]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Liquid-crystal composites based on borosiloxane gels
36. ZHEVAIKIN K.E., FOKINA M.I., DENISYUK I.Yu.
ITMO University, Saint Petersburg
Investigation of influence of photobleaching on intensity of SHG of organic nonlinear optic co-crystals aminopyridine-nitrophenol
37. IONIN A.A., KINYAEVSKIY I.O., KLIMACHEV Yu.M., KOTKOV A.A., KOZLOV A.Yu., SAGITOVA A.M., SINITSYN D.V., BADIKOV D.V.[1], BADIKOV V.V.[1]
Lebedev Physical Institute of the RAS, Moscow
[1]Kuban State University, Krasnodar
CO laser with multi-stage intra- and extracavity broadband sum frequency generation in $BaGa_2GeSe_6$ crystals (1.7–6.0 μm)
38. ILINA K.B.[1,2], BOIKOVA A.S.[1,2], MARCHENKOVA M.A.[1,2], KONAREV P.V.[1,2], DYAKOVA Yu.A.[2,1], PISAREVSKII Yu.V.[1,2], KOVALCHUK M.V.[2,1]
[1]Shubnikov Institute of Crystallography of FSRC «Crystallography and Photonics» of the RAS, Moscow
[2]National Research Centre "Kurchatov Institute", Moscow
The influence of solvent replacement (from H_2O to D_2O) on the formation of oligomers in lysozyme solution under growth tetragonal crystals
39. ANIKEEVA V.E.[1,2], BOLDYREV K.N.[2], SEMENOVA O.I.[3]
[1]Lomonosov Moscow State University
[2]Institute for Spectroscopy of the RAS, Troitsk
[3]Rzhanov Institute of Semiconductor Physics SB RAS, Novosibirsk
Structural phase transitions in perovskite $CH_3NH_3PbI_3$ single crystals
40. BOIKOVA A.S.[1,2], ILINA K.B.[1,2], MARCHENKOVA M.A.[1,2], SEREGYN A.Yu.[2,1], ROGACHEV A.V.[2], DYAKOVA Yu.A.[2,1], PISAREVSKII Yu.V.[1,2], KOVALCHUK M.V.[2,1]
[1]Shubnikov Institute of Crystallography of FSRC «Crystallography and Photonics» of the RAS, Moscow
[2]National Research Centre "Kurchatov Institute", Moscow
Structural characteristics of lysozyme Langmuir layer grown on a liquid surface from an oligomeric mixture formed in the early stages of lysozyme crystallization

Meeting 4

Wednesday, January 23, 2019, 16.00 Room 407

41. NIKOLAEV N.A.[1,2], KUZNETSOV S.A.[3,4]
[1]Institute of Automation and Electrometry SB RAS, Novosibirsk
[2]Institute of Laser Physics SB RAS, Novosibirsk
[3]Novosibirsk State University
[4]Rzhanov Institute of Semiconductor Physics SB RAS, Novosibirsk Branch "TDIAM"
Terahertz metasurface with angle-sensitive resonance for submicron-thick film studies
42. ZHUKOVA M.O., GRACHEV Ya.V., KOVALSKA E.[1], HOGAN B.[1], BALDYCHEVA A.[1], TCYPKIN A.N.
ITMO University, Saint Petersburg
[1]University of Exeter, Great Britain
Modified 2D materials for terahertz time-domain spectroscopy applications
43. KHUSYAINOV D.I., BURYAKOV A.M., MISHINA E.D.
MIREA – Russian Technological University, Moscow
Effect of excess energy on generation of the terahertz radiation in InGaAs solid solution
44. OSIPOV E.V., MARTYNOV I.L., KUZICHIN Yu.A., AKMALOV A.E., KOTKOVSKII G.E., CHISTYAKOV A.A.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Optically controlled thermal desorption from the surface of porous silicon
45. AVDEEVA A.Yu.[1], VETROV S.Ya.[1,2], TIMOFEEV I.V.[1,2]
[1]Siberian Federal University, Krasnoyarsk
[2]Kirensky Institute of Physics SB RAS, Krasnoyarsk
Hybrid states in confined by metal layer photonic crystal with nanocomposite defect
46. AYVAZYAN H.L.[1], HOVSEPYAN R.K.[1,2]
[1]Russian-Armenian University, Yerevan, Armenia
[2]Institute for Physical Research, Ashtarak, Armenia
Photoelectric properties of heterostructures based on zinc oxide
47. ALIEV S.A., TROFIMOV N.S., CHEKHLOVA T.K., ZAEV D.A.
Peoples' Friendship University of Russia (RUDN University), Moscow
Research of properties of modified titanium dioxide photocatalyzers
48. KOMISSAR D.A., KRIVOVA G.M., YAKUBOVSKY D.I., STEBUNOV Yu.V., ARSENIN A.V.
Moscow Institute of Physics and Technology (State University), Dolgoprudny
Graphene oxide optical properties
49. BACHININ S.V., LENTOVSKII V.V.
Baltic State Technical University «VOENMEH» named after D.F. Ustinov, Saint-Petersburg
Investigation of the possibility of initiation explosives by laser emission
50. PERCHENKO E.M., SAVIN K.A., AMASEV D.V.[1]
Lomonosov Moscow State University
[1]Prokhorov General Physics Institute of the RAS, Moscow
Experimental research and numerical modeling of impedance of polymeric systems with inorganic particles
51. BUKHAROV D.N., ARAKELIAN S.M., GERKE M.N.
Vladimir State University named after Alexander and Nikolay Stoletovs
Modeling of the optical properties of island semiconductor PbTe film
52. KOROLEVA A.V., ILIN A.S.
Lomonosov Moscow State University
Investigation of indium (III) oxide In_2O_3, zinc oxide ZnO and their composites by IR Fourier spectroscopy

Meeting 5

Thursday, January 24, 2019, 10.00 Room 406

53. KONIN Yu.A., SHCHERBAKOVA V.A.[1], GARANIN A.I., NURMUHAMETOV D.I., STARIKOV S.S.[1]
Perm National Research Polytechnic University
[1]Perm State University
Researh sensitivity of the fiber-optic radiation scatterer to temperature changes
54. STARYKH D.D.[1,2], SHIKHALIEV I.I.[2], NANII O.E.[2,3], TRESHIKOV V.N.[2]
[1]Moscow Institute of Physics and Technology (State University), Dolgoprudny
[2]T8 Ltd, Moscow
[3]Lomonosov Moscow State University
Effect of fiber parameters on maximum reach of fiber optical links
55. BOGACHKOV I.V.
Omsk State Technical University
Peculiarities of the Mandelstam-Brillion scattering in erbium-doped optical fibers
56. YANUKOVICH T.P., POLYAKOV A.V.
Belarusian State University, Minsk
Numerical model of distributed optical fiber sensor of electric current based on deformation
57. NIKOLAEV N.E., PAVLOV S.V., CHEKHLOVA T.K.
Peoples' Friendship University of Russia (RUDN University), Moscow
Temperature properties of multilayer optical waveguides using sol-gel materials
58. POPOV M.E., MITETELO N.V., MAMONOV E.A., ZHDANOVA K.D., MURZINA T.V.
Lomonosov Moscow State University
Nonlinear-optical microscopy of organic waveguides
59. YUSHKEVICH V.V., EGOROV A.N., MAVRITSKIY O.B., DIDENKO N.V.[1]
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[1]Lebedev Physical Institute of the RAS, Moscow
Femtosecond optical parametric amplifier for laser diagnostics of semiconductor structures
60. LOTKOV E.S.[1,2], BABURIN A.S., RYZHIKOV I.A.[1,3], RODIONOV I.A.[1,2], PANFILOV Yu.V.[1]
[1]Bauman Moscow State Technical University
[2]N.L. Dukhov All-Russian Research Institute of Automatics, Moscow
[3]Institute for Theoretical and Applied Electrodynamics of the RAS, Moscow
Deposition of ultrathin ITO-films by electron beam evaporation for integrated infrared photonics
61. SHAPIRO B.I., NEKRASOV A.D., MININA N.E.
MIREA – Russian Technological University, Moscow
Synthesis of light-sensitive layers of metallocomplexic aggregates of anionic polymethine dyes on transparent ITO-electrodes
62. GANZHERLI N.M., GULYAEV S.N.[1], MAURER I.A., KHAZVALIEVA D.R.[1]
Ioffe Physical-Technical Institute of the RAS, Saint-Petersburg
[1]Peter the Great Saint-Petersburg Polytechnic University
High frequency holographic gratings on layers of dichromated gelatin using in the processing of UV-radiation
63. PICHUGIN I.S., IGNATIEV A.I., ORESHKINA K.V., NIKONOROV N.V.
ITMO University, Saint Petersburg
Modification of photo-thermo-refractive glass matrix: technology, properties, applications
64. KUZMIN D.V., ZHELEZNOV V.Yu., ODINOKOV S.B.
Bauman Moscow State Technical University
Investigation of the exposure characteristics of photo-thermo-refractive glasses in the process of recording of holographic and diffraction elements by a pulses femtosecond laser in the near-infrared range

PLENARY 2

Thursday, January 24, 2019, 13.00 Room 406

65. ALIEVA T., RODRIGO J.A., ANGULO M.
Complutense University of Madrid, Spain
Polymorphic beam as a tool for optical manipulation in microworld
66. TOLSTIK A.L., MELNIKOVA E.A., GORBACH D.V., BOBKOVA M.V., PEKAREVICH V.V.
Belarusian State University, Minsk
Phase-polarization transformation of light beams by dynamic holograms and liquid-crystal elements
67. SAZONOV S.V.
National Research Centre "Kurchatov Institute", Moscow
To the theory of waveguide propagation of optical solitons
68. KARPOV S.N., POSTI I.M., SHESTERIKOV A.V., GUBIN M.Yu., VORONOVA N.M., LEKSIN A.Yu., PROKHOROV A.V.
Vladimir State University named after Alexander and Nikolay Stoletovs
Digital design and parameters optimization for plasmonic information processing circuits

POSTERS 3

Thursday, January 24, 2019, 15.00 Room 407

POSTERS 4

Thursday, January 24, 2019, 15.00 Room 406

Meeting 6

Thursday, January 24, 2019, 16.00 Room 406

69. TCYPKIN A.N.[1], PONOMAREVA E.A.[1], PUTILIN S.E.[1], SMIRNOV S.V.[1], SHTUMPF S.A.[1], MELNICK M.V.[1], YIWEN E.[2], KOZLOV S.A.[1], ZHANG X.-C.[1,2,3]
[1]ITMO University, Saint Petersburg
[2]University of Rochester, USA
[3]Capital Normal University, Beijing, China
Investigation of terahertz generation by filamentation in liquids
70. NOVIKOV V.B., MANTSYZOV B.I., MURZINA T.V.
Lomonosov Moscow State University
Optical second harmonic generation in the Laue geometry in 1D photonic crystals under diffraction-induced laser pulse-splitting effect
71. MAIMISTOV A.I., LYASHKO E.I., ELYUTIN S.O.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Modulation instability for the nonlinear waves on the surface of topological insulator
72. PETROV N.I.
Scientific and Technological Center of Unique Instrumentation of the RAS, Moscow **Depolarization of light in graded-index fiber**
73. LVOV K.V.[1,2], STREMOUKHOV S.Yu.[1,2], POTEMKIN F.V.[1]
[1]Lomonosov Moscow State University
[2]National Research Centre "Kurchatov Institute", Moscow
Influence of focusing conditions on supercontinuum generation under filamentation of femtosecond laser radiation
74. VESELKOVA N.G., MASALAEVA N.I., SOKOLOV I.V.
Saint Petersburg State University
Cavity-assisted atomic Raman memories beyond the bad cavity limit: effect of four-wave mixing
75. TSVETKOV D.M., BUSHUEV V.A., MANTSYZOV B.I.
Lomonosov Moscow State University
Optical pulse dynamics under quasi-PT symmetry in photonic crystals
76. ESEEV M.K., MAKAROV D.N., MAKAROVA K.A.
Northern Arctic Federal University named after M.V. Lomonosov, Arkhangelsk
Scattering attosecond pulse of an electromagnetic field when interacting with a dynamic system that performs resonant overcharge of a proton on a hydrogen atom
77. KAZANTSEVA E.V.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Polarization dynamics of thin ferroelectric film, and ferroelectric layer in paraelectric subjected to the electric field of the ultrashort electromagnetic pulse
78. MALIKOV R.F., RYZHOV I.V.[1], MALYSHEV A.V.[2,3], MALYSHEV V.A.[4]
Akmullah State Pedagogical University of Bashkortostan, Ufa
[1]Herzen State Pedagogical University of Russia, Saint-Petersburg
[2]Complutense University of Madrid, Spain
[3]Ioffe Physical-Technical Institute of the RAS, Saint-Petersburg
[4]University of Groningen, The Netherlands
Nonlinear optical response of a monolayer of Λ-emitters: multistability and self-oscillations
79. GOSHEV A.A., ESEEV M.K., MAKAROV D.N., YULKOVA V.M.
Northern Arctic Federal University named after M.V. Lomonosov, Arkhangelsk
Orientation effects in the interaction of the attosecond pulse of the electromagnetic field with molecular anions
80. KOROLEV S.B., GOLUBEVA T.Yu., GOLUBEV Yu.M.
Saint Petersburg State University
Criteria of minimum squeezing for quantum cluster state generation

Meeting 7

Thursday, January 24, 2019, 16.00 Room 407

81. KOLYADIN A.N., KOSOLAPOV A.F., BUFETOV I.A.
Fiber Optic Research Center of the RAS, Moscow
Laser induced fiber fuse effect in revolver hollow-core fibers
82. ANANYEV V.A.[1,2], DEMIDOV V.V.[1], LEONOV S.O.[3], ALAGASHEV G.K.[4], YELISTRATOVA E.A.[3], MATROSOVA A.S.[1,2], NIKONOROV N.V.[2]
[1]S.I. Vavilov State Optical Institute, Saint-Petersburg
[2]ITMO University, Saint Petersburg
[3]Bauman Moscow State Technical University
[4]Fiber Optic Research Center of the RAS, Moscow
Single-mode hollow-core antiresonant fibers with a 50 micron core and a cladding formed by eight contiguous capillaries
83. AGAFONOVA S.E.[1,2], VOLOSHIN A.S.[1], GORODNITSKIY A.S.[1,2], SHITIKOV A.E.[1,3], GORODETSKY M.L.[1,3]
[1]Russian Quantum Centre, Skolkovo, Moscow region
[2]Moscow Institute of Physics and Technology (State University), Dolgoprudny
[3]Lomonosov Moscow State University
Self-injection locking and frequency comb generation in chip-scale Si_3N_4 microresonator
84. SOFIENKO G.S., KOLEGOV A.A., ZAGIDULIN A.V., BOCHKOV A.V., NESTEROV V.A.[1]
Zababakhin All-Russia research institute of technical physics, Snezhinsk, Chelyabinsk region
Single frequency fiber laser for interferometric measurements
85. LEBEDEV V.F.[1,2], PAVLOV K.V.[2], BURKOVSKIY G.V.[3], FEDIN A.V.[3]
[1]Saint-Petersburg State University of Aerospace Instrumentation
[2]ITMO University, Saint-Petersburg
[3]Vladimir State University named after Alexander and Nikolay Stoletovs
Compact laser system based on a Nd:YAG-laser with self-phase conjugation for remote measurements by the LIBS-method

86. SHITIKOV A.E.[1,2], LOBANOV V.E.[1], TERENTEV R.V.[1,2], BILENKO I.A.[1,2], GORODETSKY M.L.[1,2]
[1]Russian Quantum Centre, Skolkovo, Moscow region
[2]Lomonosov Moscow State University
Experimental investigation of platicons generation methods

87. BURDUKOVA O.A.[1,2], DOLOTOV S.M.[3], PETUKHOV V.A.[1,2], SEMENOV M.A.[2]
[1]Moscow Institute of Physics and Technology (State University), Dolgoprudny
[2]Lebedev Physical Institute of the RAS, Moscow
[3]Mendeleev University of Chemical Technology of Russia, Moscow
Polymer dye laser pumped by 520 nm diodes

88. BASTAMOVA M.A.[1], LEONOV S.O.[1], SIDOROV N.V.[3], PALATNIKOV M.N.[3], GORELIK V.S.[1,2]
[1]Bauman Moscow State Technical University
[2]Lebedev Physical Institute of the RAS, Moscow
[3]I.V. Tananaev Institute of Chemistry and Technology of Rare Elements and Mineral Raw Materials of Kola Science Center of the RAS, Apatity, Murmansk region
Nonlinear modification of femtosecond radiation in $LiTaO_3$ ceramics

89. ZHIGARKOV V.S., ZARUBIN V.P.[1], MINAEV N.V., YUSUPOV V.I.
Institute of Photonic Technologies – branch of FSRC «Crystallography and Photonics» of the RAS, Troitsk
[1]National University of Science and Technology «MISIS», Moscow
Effects affecting survival of biological organisms in laser printing of gel micro-droplets

90. SEMENOV V.G., MILIKOV E.A. A.V., MOROZOV A.D., TARASENKO A.B.
Moscow Institute of Physics and Technology (State University), Dolgoprudny
Influence of internal parameters of four-frequency Zeeman laser gyro on characteristics of gas discharge

91. ARSHINOVA I.D.[1,2], BOBROV A.A.[1], VILSHANSKAYA E.V.[1,3], SAAKYAN S.A.[1], SAUTENKOV V.A.[1,4], ZELENER B.B.[1,2,3]
[1]Joint Institute for High Temperatures of the RAS, Moscow
[2]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[3]National Research University "Moscow Power Engineering Institute"
[4]Lebedev Physical Institute of the RAS, Moscow
Preparation of the ultra cold gas of calcium-40 atoms

92. ZEMLYANOV A.A.[1,2], TRIFONOVA A.V.[1], RYAMBOV R.V.[1]
[1]National Research Tomsk State University
[2]V.E. Zuev Institute of Atmospheric Optics, SB RAS, Tomsk
Effect of plasmon resonance on the threshold of laser generation in an active medium with Au, Ag, Pt

Meeting 8

Friday, January 25, 2019, 10.00 Room 406

93. VISHNYAKOV E.A.[1], KOLESNIKOV A.O.[1,2], RAGOZIN E.N.[1], SHATOKHIN A.N.[1,2]
[1]Lebedev Physical Institute of the RAS, Moscow
[2]Moscow Institute of Physics and Technology (State University), Dolgoprudny
High-resolution VLS-spectrometers for soft X-ray radiation

94. KOMOTSKII V.A., SOKOLOV Yu.M., SUETIN N.V., PAUYAC J.A.[1]
Peoples' Friendship University of Russia (RUDN University), Moscow
[1]University of Lima, Peru
Filtering properties of deep relief periodic reflective structure

95. DENISOV D.G., LUY P.C.[1]
Bauman Moscow State Technical University
[1]Lytkarino Optical Glass Factory, Moscow region
Research of methodical and tool errors recovery of parameters subnanometer level profiles of optical parts

96. DEGADNIKOVA L.A., OSINTSEV A.V.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Application of digital image correlation method to determine elastic constants of materials

97. DENISOV D.G., PROSOVSKIY Yu.O., PROSOVSKIY O.F.[1]
Bauman Moscow State Technical University
[1]Obninsk Research and Production Enterprise Technologiya, Kaluga Region
Analysis of appearance perspective system direct optical broadband control of threaded thicknesses optical coatings

98. MINAEV V.L., MINKOV K.N., VISHNYAKOV G.N., LEVIN G.G.
All-Russian Research Institute for Optical and Physical Measurements, Moscow
Interference optical tomograph for measuring the spatial distribution of the optical fiber

99. ZYKOVA L.A., BURMAK L.I.
Scientific and Technological Center of Unique Instrumentation of the RAS, Moscow
Spectral interferometric module based on acousto-optic filtration for measuring the spatial distribution of the optical characteristics of objects

100. TELESHEVSKI V.I., SKRYNNIK A.A.
Moscow State University of Technology (Stankin)
Laser pulse interference system, working in the middle ir range for measuring the geometrical parameters of object

101. PARSHIN V.A., EVTIKHIEVA O.A., BLIZNYUK V.V.
National Research University "Moscow Power Engineering Institute"
Modeling of spatial-energy and polarization structure of radiation in the free space of single-mode laser diodes

102. BUSURIN V.I., KOROBKOV V.V., MULIN P.V., WIN Y.N.
Moscow Aviation Institute (National Research University)
Compensation of linear acceleration effect on the angular velocity transducer based on the optical tunneling effect

103. SAPRONOV M.V., SKORNYAKOVA N.M.
National Research University "Moscow Power Engineering Institute"
Three-dimensional visualization of light scattering indikatrixes within the framework of theory of Mie

104. BUSURIN V.I., KUDRYAVTSEV P.S., LIU Zh.
Moscow Aviation Institute (National Research University)
Investigation of the scanning rate effect on the quality of a non-contact profilometer

Meeting 9

Friday, January 25, 2019, 13.00 Room 406

105. BYKOVSKY A.Yu.
Lebedev Physical Institute of the RAS, Moscow
Random oracle model in optoelectronic cryptography schemes
106. PAVLOV A.V., ROZANOV A.M.
ITMO University, Saint Petersburg
Cognitive disorders modeling by Fourier-holography technique
107. BOLOTOVA A.A., PUTILIN A.N.[1]
MIREA – Russian Technological University, Moscow
[1]Lebedev Physical Institute of the RAS, Moscow
Field of view in augmented reality displays based on lightguides with picoprojection image source
108. PISKUNOV D.E.[1], NOSOV P.A.[1], BATSHEV V.I.[1,2], YABLOKOVA A.A.[1]
[1]Bauman Moscow State Technical University
[2]Scientific and Technological Center of Unique Instrumentation of the RAS, Moscow
Analysis of variosystems based on tunable-focus lenses
109. RUSAKOVA M.S., VOLOSTNIKOV V.G.[1], KOTOVA S.P.[1], KISHKIN S.A.[1]
Samara National Research University
[1]Samara Branch of the Lebedev Physical Institute of the RAS
Cardiogram analysis by spiral beams mathematics
110. BABANIN E.A., BLANK A.V., SUHAREVA N.A.
Lomonosov Moscow State University
Control profile of the wave beam at the output of a decented optical system
111. BELASHOV A.V.[1,2], SHEVKUNOV I.A.[1], NALEGAEV S.S.[1], PUTILIN S.E.[1], LIN Y.-C.[3], CHANG C.-J.[3], PETROV N.V.[1]
[1]ITMO University, Saint Petersburg
[2]Ioffe Physical-Technical Institute of the RAS, Saint-Petersburg
[3]National Taiwan Normal University, Taipei
Numerical simulation of noncollinear degenerate phase modulation in the media with inhomogeneous nonlinear refractive index
112. TALAIKOVA N.A.[1,2], RYABUKHO V.P.[1,2]
[1]National Research Saratov State University named after N.G Chernyshevsky
[2]Institute of Precision Mechanics and Control of the RAS, Saratov
Optimal parameters modeling for reference wave forming in diffraction phase microscopy
113. BABANIN E.A., BLANK A.V., BEKKIEV K.M., NASONOV A.A.
Lomonosov Moscow State University
Differential geometry of the profile of the intensity distribution of single-mode and multi-mode wave beams
114. BORODIN A.N.
Joint Institute of Nuclear Research, Dubna
Scattered light decreasing of solar telescopes with siderostat
115. US N.A., AVERSHIN A.A., ZHIGALOV V.A.
Air Force Academy named after prof. N.E. Zhukovsky and Yu.A Gagarin, Voronezh
Matrix description of the optical scheme of the ring monoblock gyroscope
116. GONCHAROV D.S., PONOMAREV N.M., STARIKOV R.S.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Phase SLM as an image input device in the invariant optical-digital correlator

Meeting 10

Friday, January 25, 2019, 16.00 Room 406

117. KAYTUKOV Ch.B., YANOVSKY A.V.
Scientific and Technical Centre «Atlas». Moscow
The method of optoelectronic analysis of spatial Fourier spectrum for authentication of security holograms
118. PUTILIN A.N.[1], MOROZOV A.V.[1,2], DRUZHIN V.V.[2,3], MALININA P.I.[2], BOLOTOVA A.A.[4], KOPENKIN S.S.[1,4], DUBYNIN S.E.[1,2], BORODIN Yu.P.[1,4], PEREVOZNIKOVA A.S.[1,3], LVOVA K.I.[3]
[1]Lebedev Physical Institute of the RAS, Moscow
[2]Samsung Research Center, Moscow
[3]Bauman Moscow State Technical University
[4]MIREA – Russian Technological University, Moscow
AR-glasses optical system with large field of view based on holographic optical element
119. AKIMOVA Ya.E., BRETSKO M.V., HALILOV S.I., TITOVA A.O., KUDRYAN N.V.
V.I. Vernadsky Crimean Federal University, Simferopol
Measurements of a vortex spectrum via intensity moments
120. PAVLOV P.V., WOLF I.E., MOSKVIN N.V.
Air Force Academy named after prof. N.E. Zhukovsky and Yu.A Gagarin, Voronezh
Optical electronic complex NDT'S control of aircraft materials
121. BORISOV V.N., LESNICHII V.V.[1], DYURYAGINA A.B., SHURYGINA N.A., VENIAMINOV A.V.
ITMO University, Saint Petersburg
[1]Albert-Ludwig University of Freiburg, Freiburg in Breisgau, Germany
Combined multicomponent model of photopolymerization, diffusion and shrinkage processes during holographic recording
122. MAHILNY U.V., STANKEVICH A.I.
Belarusian State University, Minsk
Intensification of holographic relief gratings recorded in the layers of photo-crosslinking polymers
123. DZHAMANKYZOV N.K., ISMANOV Yu.H.
Institute of Physical-Technical Problems and Material Science of NAS KR, Bishkek, Kyrgyz republic
Temperature mode of development of the latent image of holographic recording on photothermoplastic media

124. KAMENEV V.G., KAMENEVA N.A.
N.L. Dukhov All-Russian Research Institute of Automatics, Moscow
Modeling with Zemax and experimental testing telecentric system for digital hologram registration
125. IVANOV P.A.
Yaroslavl State Technical University
Kalman correlation filters in problems of images recognition
126. GONCHAROV D.S., PONOMAREV N.M., STARIKOV R.S.,
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Investigation of binary representation of invariant correlation filters holograms in pattern recognition tasks
127. SARYBAEVA A.A.
Kyrgyz State Technical University named after I. Razzakov, Bishkek
Evaluation of optical image recognition methods effectiveness
128. MINAEVA E.D., KRASNOV V.V., RODIN V.G., CHERYOMKHIN P.A., SHIFRINA A.V.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Analysis of phase diffraction optical elements synthesis methods for 3D-scenes reconstruction

Posters 1
Wednesday, January 23, 2019, 12.00

129. SIDOROV N.V., PALATNIKOV M.N., BOBREVA L.A., KLIMIN S.A.[1].
I.V. Tananaev Institute of Chemistry and Technology of Rare Elements and Mineral Raw Materials of Kola Science Center of the RAS, Apatity, Murmansk region
[1]Institute for Spectroscopy of the RAS, Troitsk
Complex defects in the stoichiometric $LiNbO_3$ crystals
130. SAVCHENKOV E.N., SHANDAROV S.M., MANDEL A.E., NORMATOV A.Zh., ERGASHEV Zh.T., AKHMATKHANOV A.R.[1], SHUR V.Ya.[1]
Tomsk State University of Control Systems and Radioelectronics
[1]Ural State University, Ekaterinburg
Bragg light diffraction on periodic domain structure with inclined domain walls in lithium niobate crystal
131. ANTONYCHEVA E.A., SYUY A.V., SIDOROV N.V.[1], PALATNIKOV M.N.[1]
Far Eastern State Transport University, Khabarovsk
[1]I.V. Tananaev Institute of Chemistry and Technology of Rare Elements and Mineral Raw Materials of Kola Science Center of the RAS, Apatity, Murmansk region
Photorefractive light scattering in lithium niobate crystals doped double impurities
132. PIKOUL O.Yu., SIDOROV N.V.[1], TEPLYAKOVA N.A.[1], PALATNIKOV M.N.[1]
Far Eastern State Transport University, Khabarovsk
[1]I.V. Tananaev Institute of Chemistry and Technology of Rare Elements and Mineral Raw Materials of Kola Science Center of the RAS, Apatity, Murmansk region
Control of optical homogeneity of strongly doped $LiNbO_3$:Zn crystals
133. KOSTRITSKII S.M., KORKISHKO Yu.N., FEDOROV V.A., SEVOSTYANOV O.G.[1], CHIRKOVA I.M.[1], KOKANYAN E.P.[2]
RPC Optolink Ltd, Zelenograd
[1]Kemerovo State University
[2]Armenian State Pedagogical University, Yerevan
Evaluation of phase composition of proton-exchanged waveguides in $LiNbO_3$ crystals
134. POPOV V.V.[1,2], MENUSHENKOV A.P.[1], MOLOKOVA A.Yu.[1], BOYKO N.V.[1], KHRAMOV E.V.[2], SHCHETININ I.V.[3], ZHELEZNYI M.V.[3], PONKRATOV K.V.[4], KURILKIN V.V.[5], TSARENKO N.A.[6], ARZHATKINA L.A.[6]
[1]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[2]National Research Centre "Kurchatov Institute", Moscow
[3]National University of Science and Technology "MISIS", Moscow
[4]Renishaw plc, Moscow
[5]Peoples' Friendship University of Russia (RUDN University), Moscow
[6]Leading Scientific Research Institute of Chemical Technology, Moscow
Synthesis and investigation of crystal, local and electronic structures of europium titanates $Eu_2Ti_2O_7$ and $EuTiO_3$
135. BOLDYREV K.N.[1], MOLCHANOVA A.D.[1], KUZMIN N.N.[1,2]
[1]Institute for Spectroscopy of the RAS, Troitsk
[2]Lomonosov Moscow State University
Electron-vibrational spectra of CuB_2O_4 monocrystal
136. KNIAZKOV A.V..
Peter the Great Saint-Petersburg Polytechnic University
Determination of the orientation of the optical axis of the uniaxial crystals and stressed materials by reflect polarized light
137. PERIN A.S.
Tomsk State University of Control Systems and Radioelectronics
Generation of 1D bright spatial soliton in a bulk of lithium niobate due pyroelectric effect
138. PROKOPIV N.N., SYUY A.V., SURITZ V.V.
Far Eastern State Transport University, Khabarovsk
Automated installation for determination of electrooptic coefficients of lithium niobate crystals
139. MAKSIMENKO V.A.
Far Eastern State Transport University, Khabarovsk
Speckle in the pattern of the photoinduced light scattering in $LiNbO_3$:Rh crystal
140. KISTENEVA M.G., SIM E.S., SHANDAROV S.M., MEZENSEV R.V., KARGIN Yu.F.[1]
Tomsk State University of Control Systems and Radioelectronics
[1]Baikov Institute of Metallurgy and Material Sciences of the RAS, Moscow
Dynamics of photoinduced absorption of light in $Bi_{12}TiO_{20}$: Cd crystal
141. MAMONOV E.A., RASPUTNYI A.V., KOPYLOV D.A., MURZINA T.V.
Lomonosov Moscow State University
Study of bright squeezed vacuum generation in nonlinear crystals under intense femtosecond radiation

142. BUDKIN I.V.[1,2], KLIMIN S.A.[1], BADIKOV D.V.[3], BADIKOV V.V.[3]
[1]Institute for Spectroscopy of the RAS, Troitsk
[2]Moscow Institute of Physics and Technology (State University), Dolgoprudny
[3]Kuban State University, Krasnodar
IR-active phonons of $BaGa_2GeSe_6$ nonlinear crystal

143. IONIN A.A., KINYAEVSKIY I.O., KLIMACHEV Yu.M., KOZLOV A.Yu., KOTKOV A.A., SAGITOVA A.M., SELEZNEV L.V., SINITSYN D.V.
Lebedev Physical Institute of the RAS, Moscow
Light emission with wavelength up to ~20 μm by frequency mixing of slab CO- and CO_2 lasers radiation in $PbIn_6Te_{10}$ crystal

144. ZOLINA K.A.[1], GARIFULLIN A.I.[1], GAINUTDINOV R.Kh.[1,2], KHAMADEEV M.A.[1,2]
[1]Kazan Federal University
[2]Intitute of Perspective Researches of Tatarstan Academy of Sciences, Kazan
Investigation of the band structure of photonic crystal based on metamaterial with ultrahigh refractive index

145. PRUDNIKOV I.R.
Lomonosov Moscow State University
Diffraction of differently polarized light waves in a 1D photonic crystal with embedded ultrathin layers

146. ANDREEVA K.A.[1], BIKMUHAMETOV R.I.[1], GARIFULLIN A.I.[1], GAINUTDINOV R.Kh.[1,2], KHAMADEEV M.A.[1,2]
[1]Kazan Federal University, Kazan
[2]Intitute of Perspective Researches of Tatarstan Academy of Sciences, Kazan
Transmission spectra of one-dimensional photonic crystals based on metamaterials with ultrahigh refractive index

147. STROKOVA Yu.A., SVYAKHOVSKIY S.E., SALETSKY A.M.
Lomonosov Moscow State University
Spectral and angular dependence of donor molecules luminescence decay kinetics in one-dimensional photonic crystal

148. SITNIKOV N.N.[1,2], SHELYAKOV A.V.[1], KHABIBULLINA I.A.[2], SUNDEEV R.V.[3]
[1]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[2]Keldysh Research Center, Moscow
[3]Bardin Central Research Institute of Ferrous Metallurgy, Moscow
Features of thermal crystallization of amorphous TiNiCu alloys with high copper content

149. ANTONYCHEVA E.A., DOLGOPOLOV I.S., PETROVA M.S., PROKOPIV N.N., SYUY A.V.
Far Eastern State Transport University, Khabarovsk
Automated installation for the study of the dependence of the birefringence of anisotropic optically active media from an external electric field

150. ALIEV S.A., RAVIN A.R, PACHLAVONOVA K.D., TROFIMOV N.S., CHEKHLOVA T.K.
Peoples' Friendship University of Russia (RUDN University), Moscow
Application for calculating optical parameters of three-layer thin film structure according to the results of wave-watered modes coefficients measurements

151. VEKSHIN M.M., KUPLEVICH M.A., NIKITIN V.A., YAKOVENKO N.A.
Kuban State University, Krasnodar
Study of single-mode at wavelength 1,55 μm optic waveguides in glass, fabricated by ion exchange K^+-Na^+

152. PRZHIYALKOVSKIY Ya.V.[2,1], STAROSTIN N.I.[1,2], GUBIN V.P.[1,2], MORSHNEV S.K.[1,2]
[1]Fryazino Branch of Kotel'nikov Institute of Radioengineering and Electronics of RAS
[2]SPC Profotech, Moscow
The fiber optical sensor of current pulses

153. GAVRUSHKO V.V., IONOV A.S.[1], KADRIEV O.R., LASTKIN V.A.[1]
Yaroslav-the-Wise Novgorod State University
[1]OJSK «Planeta-OKB», Veliky Novgorod
Current sensitivity of differential photo receivers based on silicon

154. MORSHNEV S.K.[1,2], STAROSTIN N.I.[1,2], GUBIN V.P.[1,2], PRZHIYALKOVSKIY Ya.V.[2,1], SAZONOV A.I.[1,2]
[1]Fryazino Branch of Kotel'nikov Institute of Radioengineering and Electronics of RAS
[2]SPC Profotech, Moscow
The contrast oscillation of a reflection fiber interferometer of a current sensor

155. HALILOV S.I., RUBASS A.F., SOKOLENKO B.V, AKIMOVA Ya.E., BRETSKO M.V.
V.I. Vernadsky Crimean Federal University, Simferopol
The vortex composition of the field wound low-mode fiber

156. BOGACHKOV I.V., TRUKHINA A.I.
Omsk State Technical University
The definition of the optical fiber type by analysis of the Brillion backscatter spectrum

157. UKOLOV D.S.[1], CHERNIAK M.E.[1,2], MOZHAEV R.K.[1], PECHENKIN A.A.[2]
[1]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[2]Specialized Electronic Systems, Moscow
Study of gamma-ray induced attenuation of singlemode radiation hard optic fiber depending on the dose rate

158. ALEXEYEV C.N., BARSHAK E.V., VIKULIN D.V., LAPIN B.P., YAVORSKY M.A.
V.I. Vernadsky Crimean Federal University, Simferopol
The dispersion of higher order modes of the graded-index optical fibers

159. BOGACHKOV I.V., TRUKHINA A.I.
Omsk State Technical University
The early diagnostics of pre-emergency sections in optical fibers

160. KHARASOV D.R.[1,2], FOMIRYAKOV E.A.[2,3], LUKASHOVA T.O.[2,3]
[1]Moscow Institute of Physics and Technology (State University), Dolgoprudny
[2]T8 Ltd, Moscow
[3]Lomonosov Moscow State University
Phase-sensitive optical time domain reflectometer assisted by optimized distributed Raman amplifier

161. BURDIN V.A., BOURDINE A.V.
Povolzhsky State University of Telecommunication and Informatics, Samara
Dispersion characteristics of LP_{01} and LP_{11} modes of step-index optical fiber with Kerr nonlinearity

162. MOROZOV O.G., KUZNETSOV A.A., NUREEV I.I., SAKHABUTDINOV A.J.
Kazan National Research Technical University named after A.N. Tupolev - KAI
Address fiber graitings with a common Bragg wavelength

163. CHAYMARDANOV P.A.
Bonch-Bruevich Saint-Petersburg State University of Telecommunications
Development of software for simulation of fiber optic transmission systems

164. BOGACHKOV I.V.
Omsk State Technical University
Research Brillion reflectograms of optical fibers of different types with heated sections

165. MAKOVETSKII A.A., ZAMYATIN A.A., RYAKHOVSKIY D.V.
Fryazino Branch of Kotel'nikov Institute of Radioengineering and Electronics of RAS
Optical properties of multimode silica optical fiber with the scattering reflecting cover

166. BYLINA M.S., GLAGOLEV S.F., DOTSENKO S.E.
Bonch-Bruevich Saint-Petersburg State University of Telecommunications
Implementation of quasisoliton fiber optical communication systems

167. ZOLOTOVSKII I.O., LAPIN V.A., SEMENTSOV D.I.
Ulyanovsk State University
Modulation instability of wave packets through a inhomogeneous fiber

168. PETROV N.I.
Scientific and Technological Center of Unique Instrumentation of the RAS, Moscow
Angular divergence of partially-coherent light beams

169. SOKOLENKO B.V., SHOSTKA N.V., KARAKCHIEVA O.S., POLETAEV D.A., HALILOV S.I.
V.I. Vernadsky Crimean Federal University, Simferopol
Evolution of phase singulars at three-beam off-axis interference of coherent light

170. PROKLOV V.V., REZVOV Yu.G.[1]
Fryazino Branch of Kotel'nikov Institute of Radioengineering and Electronics of RAS
[1]Novomoskovsk Institute of Mendeleev University of Chemical Technology, Tula region
Condition for invariance of acousto-optical transmission function when changing acoustic drift in the plane of acousto-optic interaction

171. VEKSHIN M.M., NIKITIN V.A., YAKOVENKO N.A.
Kuban State University, Krasnodar
The reconstruction of parameters of ion-exchange process in glass K-8

172. MOSENTSOV S.N., OSMAKOV I.A.[1]
Bee Pitron Ltd, Saint-Petersburg
[1]Burtsev laboratory Ltd, Saint-Petersburg
Designing of the quasi-distributed spectrum analyzer

173. IZMAILOV I.V.[1], POIZNER B.N.[1], SOSNIN E.A.[1,2]
[1]Tomsk State University of Control Systems and Radioelectronics
[2]Institute of High Current Electronics SB RAS, Tomsk
Optical signal form sets the transmission characteristics of the low-frequency nonlinear element

174. ZEMTSOV D.S.[1,2], ZLOKAZOV E.Yu.[1], NEBAVSKIY V.A.[1], STARIKOV R.S.[1], KHAFIZOV I.Zh.[1,2]
[1]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[2]Scientific and Technical Centre "Module", Moscow
Using the microwave photonic downconverter for estimating the frequency of the broadband radio signal

175. SHAROGLAZOVA V.V.[1,2], ERMAKOV R.P.[2], KUROCHKIN V.L.[2], KUROCHKIN Yu.V.[2]
[1]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[2]Russian Quantum Centre, Skolkovo, Moscow region
Quantum random number generator based on vacuum fluctuation of the electromagnetic field in the cavity of pulsed laser diode

176. PLJONKIN A.P., KURTISHOV I.A., NGUYEN B.H., ANTONTSOV M.A.
Southern Federal University, Taganrog
Quantum key distribution in structured cable systems

177. VORONTSOVA I.O., MELNICK M.V., PUTILIN S.E., TCYPKIN A.N., KOZLOV S.A.
ITMO University, Saint Petersburg
Analysis of the Z-scan method for few-cycle terahertz pulses

178. VOLCOV V.G., GINDIN P.D.
JSC Moskovskij Zavod «Sapphir»
Binoculars-action with remote image transmission

179. VOLCOV V.G., GINDIN P.D.
JSC Moskovskij Zavod «Sapphir»
Combination day / night sighting system

180. AGRINSKY M.V., GOLITSIN A.V., STARTSEV V.V.[1]
Technological Center «Engineer», Tchekhov
[1]Astrohn Experimental Design Bureau, Lytkarino
The hyper spectral camera with application of optical liquid environments with the "special" course of dispersion

181. VOLCOV V.G., GINDIN P.D.
JSC Moskovskij Zavod «Sapphir»
Thermo vision TV binocular night vision

182. KULCHITSKY N.A., NAUMOV A.V.[1], STARTSEV V.V.[1]
JSC "Scientific and Production Association «Orion», Moscow
[1]Astrohn Experimental Design Bureau, Lytkarino
The development of world and Russian markets of uncooled microbolometres

Posters 2
Wednesday, January 23, 2019, 12.00

183. DYAGILEVA D.V.[1], KRIVENKOV V.A.[1], SAMOKHVALOV P.S.[1], NABIEV I.R.[1,2], RAKOVICH Yu.P.[1,3,4]
[1]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[2]University of Reims Champagne-Ardenne, France
[3]Basque University, San Sebastian, Spain
[4]Basque Foundation for Science, Bilbao, Spain
Photoluminescence properties of hybrid material based on semiconductor nanocrystals and gold nanorods under two-photon excitation

184. AGAFONOVA D.A., BABKINA A.N., FOKINA M.I., SOBOLEV D.I., NURYEV R.K.
ITMO University, Saint Petersburg
Effect of lithium on the luminescent properties of borate glass ceramics with chromium
185. ALEKSEEV Yu.L., BELOV P.A.
MIREA – Russian Technological University, Moscow
Research on the linkage between luminescence and blood oxygen content in a pulse oximeter
186. ORESHKINA K.V., DUBROVIN V.D., IGNATIEV A.I., PICHUGIN I.S.
ITMO University, Saint Petersburg
Spectral-luminescent properties of chloride photo-thermo-refractive glasses with various alkaline ions
187. KUCHERENKO M.G., NALBANDYAN V.M.
Orenburg State University
Transformation of the luminescence spectra of quantum dots near plasmon nanoparticles in a magnetic field
188. VOITSEKHOVSKII A.V., DZYADUKH S.M., KOKHANENKO A.P., DIRKO V.V., LOZOVOY K.A.
National Research Tomsk State University
Electrophysical and radiation properties of OLED structures with emission layer Alq3
189. OVECHENKO D.S., BOYCHENKO A.P.
Kuban State University, Krasnodar
Electrochemiluminescence of metal anodes in distilled water
190. PAVLOVA M.D., LAMKIN I.A., TARASOV S.A.
Saint-Petersburg State Electrotechnical University "LETI"
Investigation of the effect of thickness of active layers on the spectrum of photosensitivity of structures based on the system ZnPc:C_{60}
191. DMITRIEV A.D., SALETSKY A.M.
Lomonosov Moscow State University
Surface plasmon coupled emission from nickel thin films
192. CHERNOV A.I.[1,2], FEDOTOV P.V.[1], OBRAZTSOVA E.D.[1,3]
[1]*Prokhorov General Physics Institute of the RAS, Moscow*
[2]*National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)*
[3]*Moscow Institute of Physics and Technology (State University), Dolgoprudny*
Optical absorption of cobalt phthalocyanine molecules encapsulated inside single-walled carbon nanotubes
193. MJAGOTIN A.V., IVANOVA G.D.
Far Eastern State Transport University, Khabarovsk
Light induced thermodiffusion in two-component liquid
194. EGORYSHEVA A.V.[1], DUDKINA T.D., RYABOCHKINA P.A.[2], GOLODUKHINA S.V.[1], KHRUSHCHALINA S.A.[2], YURLOV I.A.[2], TARATYNOVA A.D.[2]
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[1]*Kurnakov Institute of General and Inorganic Chemistry of the RAS, Moscow*
[2]*Ogarev Mordovia State University, Saransk*
New optical materials based on $LnGa_{0.5}Sb_{1.5}O_6$ complex oxides with rosiaite structure
195. DRONOVA M.G., SEMENCHA A.V.
Peter the Great Saint-Petersburg Polytechnic University
Influence of Se on properties of $(As_{33}S_{33}I_{33})_{(1-x)}$-$Se_x$ glass for immersion MID-IR LEDs lenses
196. VASINA M.V., LAVROV S.D., AVDIZHIYAN A.Yu., KUDRYAVTSEV A.V., SHESTAKOVA A.P., MISHINA E.D.
MIREA – Russian Technological University, Moscow
Research of the optical properties in multilayer semiconductor heterostructures based on two-dimensional transition metal dichalcogenides
197. KRIVOVA G.M., KOMISSAR D.A., YAKUBOVSKY D.I., STEBUNOV Yu.V., ARSENIN A.V.
Moscow Institute of Physics and Technology (State University), Dolgoprudny
Thin graphene oxide films deposition using spraycoating technique
198. ROMANOV N.R.[1,2], ZOLOTOV P.I.[1,2,3], SMIRNOV K.V.[1,2,3]
[1]*Moscow State University of Education*
[2]*LLC «SCONTEL», Moscow*
[3]*National Research University Higher School of Economics, Moscow*
Development of disordered ultra-thin superconducting vanadium nitride films
199. ANTONOV E.A., KALUGIN A.I., PONOMAREV A.G.
Kalashnikov Izhevsk State Technical University
Optical spectra of $FeCl_3$ intercalated graphite
200. CHICHEVA P.A., LEVCHENKO K.S., CHUDOV K.A., POROSHIN N.O., SHMELIN P.S.[1], GREBENNIKOV E.P.[1]
MIREA – Russian Technological University, Moscow
[1]*JSC «CSRIT «Technomash», Moscow*
Synthesis and investigation of electrochemical properties of polymeric microspheres modified with electrochromic compounds
201. AVDIZHIYAN A.Yu., LAVROV S.D., SHESTAKOVA A.P.
MIREA – Russian Technological University, Moscow
Exciton states properties of two-dimensional transition metal dichalcogenides alloys
202. JEENBAEV N.J., DORJUEVA G.D., NURSEITOVA A.M.
Academician J. Jeenbaev Institute of Physical and Technical Problems and Material Science of NAS of the Kyrgyz Republic, Bishkek, Kyrgyz Republic
Gold concentration determination by the method of scintillation analysis in two-jets plasmatron
203. MASHKO A.M.[1,2], MEYSTERSON A.A.[1,3], AFANASIEV A.E.[1], MELENTIEV P.N.[1], BALYKIN V.I.[1]
[1]*Institute for Spectroscopy of the RAS, Troitsk*
[2]*National Research University Higher School of Economics, Moscow*
[3]*Moscow Institute of Physics and Technology (State University), Dolgoprudny*
Spectroscopy of cold atoms localized by a femtosecond pulsed laser field
204. MAKIN V.S., LOGACHEVA E.I., MAKIN R.S.[1]
Institute for Nuclear Energetic, Sosnovy Bor, Leningrad region
[1]*National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)*
ZnO ordered resonant relief hierarchy under the ultrashort pulses of linear polarized laser radiation
205. CHMEREVA T.M., KUCHERENKO M.G.
Orenburg State University
Energy relaxation of quantum dots with the involvement of surface plasmons

206. KONDRATENKO T.S., ZVYAGIN A.I., PEREPELITSA A.S., SMIRNOV M.S., OVCHINNIKOV O.V.
Voronesh State University
Nonlinear absorption and refraction in colloidal quantum dots Ag_2S
207. TEPLIAKOV N.V., BAIMURATOV A.S., BARANOV A.V., FEDOROV A.V., RUKHLENKO I.D.
ITMO University, Saint Petersburg
Optical properties of quantum dots with chiral shapes
208. VOLODIN D.O.[1], ZVAIGZNE M.A.[1], ALEXANDROV A.E.[1,2], SAMOKHVALOV P.S.[1], NABIEV I.R.[1,3]
[1]*National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)*
[2]*Frumkin Institute of Physical chemistry and Electrochemistry of the RAS, Moscow*
[3]*University of Reims Champagne-Ardenne, France*
Thin CdSe/ZnS/CdS/ZnS quantum dots films for led manufacturing
209. RUSINOV A.P.
Orenburg State University
Definition of nonlinear optical properties of water solutions of CdSe quantum dots
210. SKOBELKINA A.V., KASHAEV F.V., KOLCHIN A.V., HILOV A.V.[1], KURAKINA D.A.[1]
Lomonosov Moscow State University
[1]*Institute of Applied Physics of the RAS, Nizhny Novgorod*
Application of silicon nanoparticles produced by laser ablation of porous silicon in biophotonics
211. ZHUMABAY N.D., SELIVERSTOVA E.V., IBRAYEV N.Kh.
Buketov Karaganda State University, Kazakhstan
Influence of plasmon resonance of metal nanoparticles on the photonics of rhodamine dye in nanosized films
212. SYRNIKOV D.A., KURKOTOV A.D., KRYLOV V.I.
Far Eastern State Transport University, Khabarovsk
Deposition of nanoparticles under the influence of a light pressure
213. IBRAYEV N.Kh., AIMUKHANOV A.K.
Buketov Karaganda State University, Kazakhstan
Effect of Ag nanoparticles on the properties of stimulated emission of 5973 in alcohol
214. ZABALUEVA Z.A., NEPOMNYASCHAYA E.K., VELICHKO E.N.
Peter the Great Saint-Petersburg Polytechnic University
Parameters of the cross-correlation scattering scheme for estimating the nanoparticle sizes
215. KOLCHIN A.V., KASHAEV F.V., SKOBELKINA A.V., SHULEIKO D.V., KAMINSKAYA T.P., PAVLIKOV A.V.
Lomonosov Moscow State University
Structural properties of nanoparticles formed via pulsed laser ablation of silicon carbide in liquids
216. SAPARINA S.V., KHARINCEV S.S.
Kazan Federal University, Kazan
Characterization of carbon nanolayer of optical fibers via a new class of hybrid tip-enhanced Raman scattering methods
217. USTINOV A.S.[1], OSMINKINA L.A.[1], EFIMOVA A.I.[1], ZABOTNOV S.V.[1,2,3], GOLOVAN L.A.[1]
[1]*Lomonosov Moscow State University*
[2]*National Research Centre "Kurchatov Institute", Moscow*
[3]*Moscow Institute of Physics and Technology (State University), Dolgoprudny*
Anisotropy of the third harmonic generated in silicon nanowire ensembles
218. MOSHKOVA M.A.[1,2], DIVOCHIY A.V.[2], MOROZOV P.V.[2], ANTIPOV A.V.[2], VACHTOMIN Yu.B.[2,3], SMIRNOV K.V.[1,2,3]
[1]*National Research University Higher School of Economics, Moscow*
[2]*LLC «SCONTEL», Moscow*
[3]*Moscow State University of Education*
Characterization of topologies of superconducting photon number resolving detectors
219. NEYASOV P.P., ALIMBEKOV I.R., KUCHERENKO M.G.
Orenburg State University
Formation of pulses of cross-annihilation delayed fluorescence of molecules in nanoreactors with magnetite particles
220. KUZNETSOVA O.B., SAVCHENKO E.A., VELICHKO E.N.
Peter the Great Saint-Petersburg Polytechnic University
Visualization of single molecules by the method of total internal reflection fluorescent microscopy
221. GERASIMOV V.S.[1,2], ERSHOV A.E.[1,2], BIKBAEV R.G.[2], RASSKAZOV I.L.[3]
[1]*Siberian Federal University, Krasnoyarsk*
[2]*Kirensky Institute of Physics SB RAS, Krasnoyarsk*
[3]*University of Rochester, USA*
The manifestation of Rayleigh anomalies in hybrid plasmon-photonic structures
222. PEN'KOV S.A., KUCHERENKO M.G.
Orenburg State University
Optically detected magnetic resonance of mobile triplet states in nanocavity with paramagnetic centers
223. BILYK V.R., BURYAKOV A.M., MISHINA E.D., GALIEV G.B.[1], KLIMOV E.A.[1], MALTSEV P.P.[1], PUSHKAREV S.S.[1]
MIREA – Russian Technological University, Moscow
[1]*Institute of Ultra-High-Frequency Semiconductor Electronics of the RAS, Moscow*
Plasmonic structure based on low-temperature GaAs as generator and detector THz-radiation
224. AKMALOV A.E., KOZLOVSKII K.I., KOTKOVSKII G.E., KRIUKOVA I.S., MARTYNOV I.L., OSIPOV E.V. A.A., PLEKHANOV A.A., CHISTYAKOV A.A.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
An investigation of the terahertz reflection spectra of structures based on porous silicon layers
225. GORBATOVA A.V., VASINA M.V., KHUSYAINOV D.I., BURYAKOV A.M., MISHINA E.D.
MIREA – Russian Technological University, Moscow
Surface terahertz radiation generated by bulk and monolayer WSe_2
226. MAKIN V.S., MAKIN R.S.[1]
Institute for Nuclear Energetic, Sosnovy Bor, Leningrad region
[1]*National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)*
Universality of powerful polarized terahertz radiation interaction with condensed matter
227. KUCHERENKO M.G., CHMEREVA T.M., NALBANDYAN V.M.
Orenburg State University
Magnetic circular dichroism spectra of composite nanoparticles with excitonogeneous components

228. ZADOROZHNY O.F., DAVYDOV V.N.
Tomsk State University of Control Systems and Radioelectronics
Energy spectrum of triangular quantum well with composite profile

229. JEENBAEV N.J., RYSKUL KYZY G., NURSEITOVA A.M..
Academician J. Jeenbaev Institute of Physical and Technical Problems and Material Science of NAS of the Kyrgyz Republic, Bishkek, Kyrgyz Republic
Highly sensitive emission spectrometer for determination of matter's small content

230. AGAFONOVA D.A., BABKINA A.N., ZYRYANOVA K.S.
ITMO University, Saint Petersburg
The study of the spectral properties of borate glasses doped with chromium ions

231. GRIGORIEVA A.A., GORBYAK V.V., SIDOROV A.I.
ITMO University, Saint Petersburg
Raman spectroscopy of photothermorefractive silver silicate glasses: the influence of ultraviolet irradiation and heat treatment

232. BABKINA A.N., AGAFONOVA D.A., KULJPINA E.V., ZYRYANOVA K.S., ORESHKINA K.V.
ITMO University, Saint Petersburg
Terbium and cerium-doped magnetooptical phosphate glasses

233. NAZAROVA D.A., NEMTSEV A.I., SIDOROV A.I.[1], PODSVIROV O.A., YURINA U.V.
Peter the Great Saint-Petersburg Polytechnic University
[1]ITMO University, Saint Petersburg
Electron-beam modification of optical properties of phosphate glasses with high concentration of silver

234. NGO D.T., NGO V.V., SIDOROV A.I.
ITMO University, Saint Petersburg
Raman spectroscopy of phosphate silver-containing glasses

235. NGO V.V., NGO D.T., SIDOROV A.I.
ITMO University, Saint Petersburg
Formation and optical properties of oriented silver spheroids in glass

236. ASHUROV M.S., EREMINA E.A., LAPTINSKAYA T.V., KLIMONSKY S.O.
Lomonosov Moscow State University
The formation of two-level diffraction structures from polystyrene microspheres

Posters 3
Thursday, January 24, 2019, 15.00

237. KHALYAPIN V.A., BUGAY A.N.[1]
Kaliningrad State Technical University
[1]Joint Institute of Nuclear Researches, Dubna
Tunnel ionization and suppression of intrapulse Raman scattering

238. YAKUSHENKOV P.O.[1,2]
[1]Lebedev Physical Institute of the RAS, Moscow
[2]JCK «Angstrem -T», Zelenograd
Permittivity in terms of general relativity theory

239. AVERBUKH B.B., AVERBUKH I.B.
Pacific State University, Khabarovsk
Propagation of a plane electromagnetic wave in a medium from linear electric quadruples

240. MITYUREVA A.A., SMIRNOV D.V.
Saint Petersburg State University
Excitation by electron impact of radioactive levels of $4p^5 5p$ krypton atom configuration

241. HOPERSKY A.N., NADOLINSKY A.M., SUKHORUKOVA O.B., KONEEV R.V.
Rostov State Transport University, Rostov-on-Don
Quadrupole emission in the scattering of two photons by an atom

242. BOROVYKH S.V., SMIRNOV V.V.
Saint Petersburg State University
Evaluation of the diffraction pattern degradation in the high-power ultrashort X-ray radiation for the hydrogen molecule

243. LIVASHVILI A.I., KRISHTOP V.V., VINOGRADOVA P.V., YASHCHUK O.I.
Far Eastern State Transport University, Khabarovsk
Nonlinear response of nanofluids to the effect of the light field

244. ARKHIPOV D.N., BOROVYKH S.V., KOZHINA A.S., MITYUREVA A.A., SMIRNOV V.V.
Saint Petersburg State University
Evaluation of the probabilities of photoionization of the lithium atom in ultrashort laser field

245. SEMENOVA L.E.
Prokhorov General Physics Institute of the RAS, Moscow
The hyper-Raman scattering of light by LO-phonons under two-photon excitation near the absorption edge in a CdS crystal

246. BEZRUKOV A.D., OKISHEV K.N.
Far Eastern State Transport University, Khabarovsk
Thermal lens response of thin-film mirrors

247. ASTASHKEVICH S.A.
Saint Petersburg State University
Exact numerical analysis of the Heisenberg uncertainty relation for lower 2Σ electronic states of the H^{2+} molecule

248. SIMAKOV S.R., IVANOVA G.D., OVSEYCHOOK O.O.
Far Eastern State Transport University, Khabarovsk
Modeling of nonlinear multiwave interactions in medium with relief nonlinearity

249. ASTASHKEVICH S.A., MITYUREVA A.A., SMIRNOV V.V.
Saint Petersburg State University
Calculation of the photoionization probability of H_2 under the action of ultrashort radiation

250. OGLUZDIN V.E.
Prokhorov General Physics Institute of the RAS, Moscow
Axions in optical experiments

251. TUROVTSEV V.V.[1,2], ORLOV Yu.D.[1], KAPLUNOV I.A.[1]
[1]Tver State University
[2]Tver State Medical University
Transition intensities of torsional vibrations
252. ZEMLYANOV A.A.[1,2], TRIFONOVA A.V.[1], RYAMBOV R.V.[1]
[1]National Research Tomsk State University
[2]V.E. Zuev Institute of Atmospheric Optics, SB RAS, Tomsk
Influence of concentrations of algoromerated Al and Ag nanoparticles on the threshold of secondary generation
253. TARASOV A.P., BRISKINA Ch.M., MARKUSHEV V.M., ZADOROZHNAYA L.A.[1], LAVRIKOV A.S.[1]
Kotel'nikov Institute of Radioengineering and Electronics of RAS, Moscow
[1]Shubnikov Institute of Crystallography of FSRC «Crystallography and Photonics» of the RAS, Moscow
Lasing modes in ZnO tetrapods grown by carbothermal synthesis
254. IONIN A.A., KINYAEVSKIY I.O., KLIMACHEV Yu.M., KOZLOV A.Yu., SAGITOVA A.M., SINITSYN D.V., CHEBOTAREV I.A.
Lebedev Physical Institute of the RAS, Moscow
Broadband selection of lasing on high vibrational transitions for Q-switched CO laser by an optical filter
255. VLASOVA K.V., MAKAROV A.I., ANDREEV N.F., KONOVALOV A.N.[1], KOZHEVATOV I.E., SILIN D.E.
Institute of Applied Physics of the RAS, Nizhny Novgorod
[1]LLC «Quartz technology», Shilovo, Ryazan region
Synthetic crystal quartz as a material for output stages of high-power laser systems
256. BLINOV I.Yu., VOSKANOV M.L., KHATYREV N.P.
All-Russian Scientific Research Institute of Physical-Technical and Radiotechnical Measurements, Mendeleevo, Moscow region
About the problems and prospective of creating standard lasers with a wave length of 0.633 μm with increased frequency stability
257. FEDIN A.V.
Vladimir State University named after Alexander and Nikolay Stoletovs
Stabilization of the generating spectrum of a solid-state pulsed Nd-YAG-laser with a multy-loop cavity
258. GALUSHKIN M.G., GRISHAEV R.V.
Institute on Laser and Information Technologies – branch of FSRC «Crystallography and Photonics» of the RAS, Shatura
Energy parameters of double-pass planar amplifiers based on diode-pumped YAG:Yb^{+3}
259. KOZHEVNIKOV V.A., PRIVALOV V.E.
Peter the Great Saint-Petersburg Polytechnic University
The geometrical effect of an active element cross-section on the laser gain
260. BAZZAL Kh., VOROPAY E.S., ZAJOGIN A.P., LICHKOVSKYI V.V.
Belarusian State University, Minsk
Study of the influence of inter-pulse interval on the processes of formation of AlN when exposed to aluminum target by double laser pulses
261. NGUYEN Q.D., SHAKHNO E.A., ZAKOLDAEV R.A., SINEV D.A., LUONG V.C.
ITMO University, Saint Petersburg
Features of interference thermochemical recording on thin titanium films under the influence of picosecond laser
262. MELEKHOV A.P., VOVCHENKO E.D., KOMARESKY V.M., RAMAKOTI R.S.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
High-speed optical registration of the formation of radiating terahertz vacuum spark
263. GETMANOV Ya.V.[1], DOROKHOV V.L.[1], ZAROVSKY A.I., KOMELKOV A.S., KURKIN G.Ya.[1], PELIPENKO V.I.
Prokhorov General Physics Institute of the RAS, Moscow
[1]Budker Institute of Nuclear Physics of SB RAS, Novosibirsk
Picosecond dissector with crossed sweep
264. NEUPOKOEVA A.V., NEBOGIN S.A.[1]
Irkutsk State Medical University
[1]Irkutsk National Research Technical University
Probe microscopy of crystallogram under laser modification of organic solutions
265. ROGALIN V.E., KRIMSKY M.I.[1], KOLCHIN S.S.[2], ARANCHII S.M.[3], KAPLUNOV I.A.
Tver State University
[1]Moscow Institute of Physics and Technology (State University), Dolgoprudny
[2]Scientific and Production Corporation «Systems of Precision Instrument Making», Moscow
[3]MEV-Technologies, Moscow
CO_2 laser apparatus for cupping of chronic pain syndrome
266. MASLOVA G.T., BULOICHIK J.I., ZAJOGIN A.P., MAVRICHEV A.S.[1], DERZHAVETS L.A.[1], TRUBETSKAYA A.S., TITOVA A.V.
Belarusian State University, Minsk
[1]RRPC of Oncology and Medical Radiology, Minsk, Belarus
Application of laser atomic emission spectrometry the dried drops of blood plasma in the diagnosis of brain tumors
267. KRASNIKOV I.V., SETEIKIN A.Yu., KOVTANYUK A.E.[1], TROFIMOVA O.N.[2], PROKHOROV I.V.[1], KIM J.G.[3]
Amur State University, Blagoveshchensk
[1]Institute for Applied Mathematics FEB RAS, Vladivostok
[2]Far Eastern Federal University, Vladivostok
[3]Institute of Science and Technology, Gwangju, South Korea
Temperature distribution in skin with inclusion of nanoparticles under the laser irradiation
268. KOVALENKO A.A.[1], YAROSLAVSKY I.V.[3], SOBOL E.N.[3], ALTSHULER G.B.[3], EVTIKHIEV N.N.[1,2]
[1]IRE-Polus Corporation, Fryazino
[2]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[3]IPG Medical, Marlborough, USA
Evaluation of thermal effect of laser interaction with cartilage tissue
269. TIMCHENKO P.E., TIMCHENKO E.V., DOLGYSHKIN D.A.[1], VOLOVA L.T.[1], LAZAREV V.A.[1], MARKOVA M.D., TIKHOMIROVA G.P., LOMKINA A.V.
Samara National Research University
[1]Samara State Medical University
Optical assessment of the quality of the restoration of the armated surface of the knee joint of rabbies after chondroplastic
270. BUKHARINA A.B., PENTO A.V., ABLIZEN R.S., SIDOROV A.I.[1], KRAVETS K.Yu.[2]
Prokhorov General Physics Institute of the RAS, Moscow
[1]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[2]V.I. Vernadsky Institute of Geochemistry and Analytical Chemistry of the RAS, Moscow
Ionization by laser plasma radiation in the atmospheric-pressure mass spectrometry of biological objects

271. PATAPOVICH M.P., ZAJOGIN A.P., MINKO A.A., PAVLUCOVEC S.A.
Belarusian State University, Minsk
Retrospective estimation of the essential elements content in the hair of mother and child by the atomic-emission spectrometry methods

272. TIMCHENKO E.V., TIMCHENKO P.E., PISAREVA E.V., FEDOROVA Ya.V., SUBATOVICH A.N.
Samara National Research University
Spectral analysis of the effectiveness of treatment of bones of rats after ovariectomy with gidroksiapatit

273. STARTSEVA E.D.[1,2], ANDREEVA V.A.[1], EVTIKHIEV N.N.[1,2]
[1]*IRE-Polus Corporation, Fryazino*
[2]*National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)*
Investigation of thermal fields in kidney stones during thulium fiber laser lithotripsy

274. GRIGORIEV R.O., KUZIKOVA A.V., KURASOVA A.P., KHODZITSKY M.K., DEMCHENKO P.S., ZAKHARENKO A.A.[1], KHAMID A.H.[1], SENYUK A.V.[1]
ITMO University, Saint Petersburg
[1]*Pavlov First Saint-Petersburg State Medical University*
Investigation of optical properties and spectral characteristics of the human stomach in the terahertz frequency range for intraoperative cancer diagnosis

275. RUBASS A.F., ONIKIENKO E.V., VDOVICHENKO A.N.
V.I. Vernadsky Crimean Federal University, Simferopol
Analysis of thyroid tissue state by stokes polarimetry method

276. TIMCHENKO P.E., TIMCHENKO E.V., VOLOVA L.T.[1], FROLOV O.O., TIHOV I.S., YUGOFAROVA E.F.
Samara National Research University
[1]*Samara State Medical University*
Spectral analysis of bioimplants for dentistry

277. KRUPINA N.V., VERINA E.V., KHNYKINA K.A.
Soul Ural State University, Chelyabinsk
The investigation of the spectrum of Raman scattering light of glucose

278. GALIAKHMETOVA D.I., GALIMULLIN D.Z.[1], SIBGATULLIN M.E.
Kazan Federal University
[1]*Kazan Innovative University named after V.G. Timiryasov*
The separation of complex spectra by artificial immune system

279. VASIL'EV S.V., DAUKSHA A.Yu., IVANOV A.Yu.
Y. Kupala Grodno State University, Belarus
Software to calculate electron density field of steam-plasma cloud

280. PENTO A.V.[1], MUKHAMATNUROVA A.R.[1,2], KUZMIN I.I.[3]
[1]*Prokhorov General Physics Institute of the RAS, Moscow*
[2]*National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)*
[3]*V.I. Vernadsky Institute of Geochemistry and Analytical Chemistry of the RAS, Moscow*
351 and 263 nm pulsed laser desorption of organic compound ions from a nanostructured silicon surface

281. TERENTEV R.V.[1,2], SHITIKOV A.E.[1,2], BILENKO I.A.[1,2], GORODETSKY M.L.[1,2]
[1]*Russian Quantum Centre, Skolkovo, Moscow region*
[2]*Lomonosov Moscow State University*
Application of electric heating element for fiber tapering

282. FEDOROV D.O.[1], KORENSKY M.Yu., LAPSHIN K.E., GANIN D.V., KORYSTOV D.Yu.[1], VARTAPETOV S.K.
Prokhorov General Physics Institute of the RAS, Moscow
[1]*Optosystems Ltd., Moscow*
High speed optical scanning system featuring Dove prism

283. DUDOVA D.S., GANIN D.V.[1], SHAVKUTA B.S., KUPRIYANOVA O.S.[2], MINAEV N.V.
Institute of Photonic Technologies, – branch of FSRC "Crystallography and Photonics" of the RAS, Troitsk
[1]*Prokhorov General Physics Institute of the RAS, Moscow*
[2]*Baikal Institute of Nature Management SB of RAS, Ulan-Ude*
Laser fabrication of optical polymer elements prototypes by ultrashort laser pulses

284. AKHMETOV A.R., LYUBIMOV. A.I.
State Institute of Applied Optics, Kazan
Study on diffraction gratings deformation by nanopulsed laser radiation

285. AVERIN S.V., KUZNETZOV P.I., ZHITOV V.A., ZAKHAROV L.Yu., KOTOV V.M.
Fryazino Branch of Kotel'nikov Institute of Radioengineering and Electronics of RAS
Two-color visible detector on the base of Bragg reflector ZnS/ZnSe

286. IVANOV V.I., SIMAKOV S.R.
Far Eastern State Transport University, Khabarovsk
Modeling photosensitivity mechanisms of the chalcogenide films

287. ZAVGORODNIY A.V., AHATOVA Zh.Zh.
Buketov Karaganda State University, Kazakhstan
Photoelectric characteristics of solid phthalocyanine copper film

288. GORYAEV M.A.
Herzen State Pedagogical University of Russia, Saint Petersburg
Dye sensitization of photoeffect in monocrystalline silicon

289. GORYAEV M.A., SMIRNOV A.P.
Herzen State Pedagogical University of Russia, Saint Petersburg
Dye sensitization of photoprocesses in dielectric – semiconductor system

290. TEMIRBAYEVA D.A.[1], AFANASYEV D.A.[1,2], IBRAYEV N.Kh.[1]
[1]*Buketov Karaganda State University, Kazakhstan*
[2]*Institute of Applied Mathematics, Karaganda, Kazakhstan*
Electron phototransfer from dye to TiO_2 semiconductor

291. FILATOV A.L.[1], PETROV O.A.[1,2], ELISEEV M.A.[1,2]
[1]*Fryazino Branch of Kotel'nikov Institute of Radioengineering and Electronics of RAS*
[2]*MIREA – Russian Technological University, Moscow*
Automatic control of an MDR-23 monochromator using standart netduino platform by way of photoluninesent geterostructures investigations

292. SHTAREVA A.V.[1,2], SYUY A.V.[1], SHTAREV D.S.[2], NASHCHOCHIN E.O.[1]
[1]Far Eastern State Transport University, Khabarovsk
[2]Institute of Tectonics and Geophysics named after Yu.A. Kosygin of the FEB RAS, Khabarovsk
Photocatalytic activity of heterostructures containing of two different strontium bismuthates

293. SADYKOVA A.E., SELIVERSTOVA E.V., IBRAYEV N.Kh.
Buketov Karaganda State University, Kazakhstan
Research of photocatalytic properties of TiO_2

294. ZHUMABEKOV A.Zh., IBRAYEV N.Kh., SADYKOVA A.E., SELIVERSTOVA E.V.
Buketov Karaganda State University, Kazakhstan
Research of photocatalytic properties of TiO_2-GO nanocomposite

295. ROMASHKO R.V.[1,2], LO I.[3], SHIH C.-H.[3], KOLCHINSKIY V.A.[1]
[1]Institute of Automation and Control Processes of FEB RAS, Vladivostok
[2]Far Eastern Federal University, Vladivostok
[3]National Sun Yat-sen University, Kaohsiung, China
Investigation of photochrome properties of gallium nitride doped by iron and copper

296. FILATOV A.L.
Fryazino Branch of Kotel'nikov Institute of Radioengineering and Electronics of RAS
Novel nonlinearity model for photorefractive effect in silicon that is caused by change of semiconductors transport parameters under different intensities of a pump beam

297. ROMASHKO R.V.[1,2], LIAW D.J.[3], KOLCHINSKIY V.A.[1]
[1]Institute of Automation and Control Processes of FEB RAS, Vladivostok
[2]Far Eastern Federal University, Vladivostok
[3]National Taiwan University of Science & Technology, Taipei
Study of electrochromine properties of new functional polymers

298. SHESTAKOVA A.P., LAVROV S.D., EFIMENKOV Yu.R.[1]
MIREA – Russian Technological University, Moscow
[1]JSC «RPE «Pulsar», Moscow
Highly sensitive photodetector based on MoS_2 monolayers: technological process

Posters 4
Thursday, January 24, 2019, 15.00

299. STOYKOVA E., NAZAROVA D., IVANOV B.
Institute of optical materials and technologies, Bulgarian Academy of Sciences, Sofia, Bulgaria
Monitoring of processes by dynamic laser speckle analysis

300. MAKSIMOVA L.A.[1], MYSINA N.Yu.[1], RYABUKHO P.V.[1,2], LYAKIN D.V.[1], RYABUKHO V.P.[1,2]
[1]Institute of Precision Mechanics and Control of the RAS, Saratov
[2]National Research Saratov State University named after N.G Chernyshevsky
Longitudinal coherence and instantaneous speckle- patterns in optical wawe field with wide frequency and angular spectra

301. ADAMOV A.A., BARANOV M.S., KHRAMOV V.N
Volgograd State University
Variations of the modified laser triangulation method

302. ISMAILOV Sh.M.[1,2], KAMENEV V.G.[2]
[1]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[2]N.L. Dukhov All-Russian Research Institute of Automatics, Moscow
Four-channel system for recording the coherent backscattering effect of dispersed media

303. SHOSTKA N.V., KARAKCHIEVA O.S., SOKOLENKO B.V., SHOSTKA V.I.
V.I. Vernadsky Crimean Federal University, Simferopol
Formation of the optical traps system

304. EFIMOVA K.V.[1,2], KISHKIN S.A.[1], KOTOVA S.P.[1], PROKOPOVA D.V.[1,2]
[1]Samara Branch of the Lebedev Physical Institute of the RAS
[2]Samara National Research University
Hardware-software complex for calculation and formation of spiral beams of light

305. ABROSIMOV I.N., ANDRUSHAK E.A., KUZNETSOV V.V.
MIREA – Russian Technological University, Moscow
Wave processes compatible with transformations in active optics

306. PECHINSKAYA O.V.
National Research University "Moscow Power Engineering Institute"
Effectiveness estimate of the use scheimpflug adapter in optical measuring systems

307. BUSURIN V.I., ZHEGLOV M.A.[1], KOROBKOV K.A., BULYCHEV R.P.
Moscow Aviation Institute (National Research University)
[1]JSC «GosNIIP», Moscow
Development of the method of «roughly-accurate» information processing in the accelerated converter with optical reading

308. DENISOV D.G., MOROZOV A.B.[1]
Bauman Moscow State Technical University
[1]Lytkarino Optical Glass Factory, Moscow region
Feature of method for determining local deflections of nanometer level in the settings spatial-frequency profile range of optical surfaces

309. BAZYKIN S.N., BAZYKINA N.A. V.O., SAMOKHINA K.S.
Penza State University
Opto-electronic device for measuring linear displacements of objects

310. SHNYREV S.L., KONDRASHOV A.A., DOLIN A.A., KOLESNICHENKO A.A.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Analysis of modern methods and means of serometer connecting compounds monitoring

311. POLYAKOV A.V., SAKHONCHIK D.G.
Belarusian State University, Minsk
Analysis of the recirculation period short-term fluctuations in closed fiber optical systems

312. SHACHNEVA E.A., MURASHKINA T.I.
Penza State University
Features of determination of constructive and technological parameters of the mechanical conversion of fiber optical sensor of parameters of liquid

313. KAMENEV O.T.[1,2], PETROV Yu.S.[2], KOLCHINSKIY V.A.[2], PODLESNYKH A.A.[1]
[1]Far Eastern Federal University, Vladivostok
[2]Institute of Automation and Control Processes of FEB RAS, Vladivostok
Underground mine tests of fiber strain sensor with passive stabilization

314. PARFENTYEVA V.B.[1,2], KAMYNIN V.A.[2], TRIKSHEV A.I.[2]
[1]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[2]Prokhorov General Physics Institute of the RAS, Moscow
Measurement of dispersion characteristics of optical fibers based on using the Michelson interferometer

315. MOSTOVAYA E.I., BELONENKO M.B.
Volgograd State University
Three-dimensional chirped light bullets in carbon nanotubes

316. IVANOV D.M., RUZHITSKAYA D.D., RYZHIKOV S.B., RYZHIKOVA Yu.V.
Lomonosov Moscow State University
Stability analysis of dendritic type system characteristics

317. ANTONOV A.I.
Penza State University of Architecture and Construction
Definition of the fourier coefficients decomposition of the dielectric permeability of thin layers of sawtooth microstructures within the framework of the RCWA

318. SHOSTKA V.I., SHOSTKA N.V.
V.I. Vernadsky Crimean Federal University, Simferopol
Identification of fractal cluster structures in the surface layer of water

319. AVLASEVICH N.T., ANUFRIK S.S., LYALIKOV A.M.
Y. Kupala Grodno State University, Belarus
Application of the muar effect for visualization of macrodefects of dynamic periodic structures

320. BOYCHENKO A.P., SHAYTANOV D.V.
Kuban State University, Krasnodar
Electrical field visualization on X-ray photomaterials with expiration date

321. DONENKO I.L.
V.I. Vernadsky Crimean Federal University, Simferopol
Modification of the night vision apparatus by methods of fractal optoelectronics

322. AVEROCHKIN E.P., RYZHIKOV S.B., RYZHIKOVA Yu.V.
Lomonosov Moscow State University
Optical properties of approximants of fractal-like multilayer structures with metamaterials

323. MAHILNY U.V., STANKEVICH A.I.
Belarusian State University, Minsk
Novel polymer material for photo-stimulated orientation of LC

324. KUDINOV O.B., BELASHOV A.V.[1,2], PETROV N.V.[1], KHURCHAK A.P.
Marine Hydrophysical Institute of the RAS, Sebastopol
[1]ITMO University, Saint Petersburg
[2]Ioffe Physical-Technical Institute of the RAS, Saint-Petersburg
Spatial light modulator based on liquid crystal display ELT240320ATP and Arduino

325. EZHOV V.A., KOMPANETS I.N.[1]
[1]Lebedev Physical Institute of the RAS, Moscow
[2]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Distant binocular flc filter for naked-eye observing the stereoscopic images of millisecond duration

326. MAKSIMOVA L.A.[1], DYACHENKO A.A.[1,2], MYSINA N.Yu.[1]
[1]Institute of Precision Mechanics and Control of the RAS, Saratov
[2]National Research Saratov State University named after N.G Chernyshevsky
Formation of the interference microscopic images of thin layers at large numerical aperture of illuminating field

327. PEREVOZNIKOVA A.S.[1,3], DUBYNIN S.E.[2,3], BORODIN Yu.P.[3,4], PUTILIN A.N.[3], MOROZOV A.V.[2,3], KOPENKIN S.S.[3,4]
[1]Bauman Moscow State Technical University
[2]Samsung Research Center, Moscow
[3]Lebedev Physical Institute of the RAS, Moscow
[4]MIREA – Russian Technological University, Moscow
Measurements of phase shift on LCoS, operating in tilted beam, by Mach-Zehnder interferometer

328. IL`INA N.S., POROYKOV A.Yu.
National Research University "Moscow Power Engineering Institute"
Selection of laser interferometer scheme for measuring the form of diffuse reflective surface with high dynamic range

329. GRIZBIL B.A.[1,2], SAKHADZHI G.V.[3], ZHURAVLEV S.D.[3], BOGACHEV R.Yu.[3], RYABUKHO V.P.[1,2]
[1]National Research Saratov State University named after N.G Chernyshevsky
[2]Institute of Precision Mechanics and Control of the RAS, Saratov
[3]JSC «RPE «Almaz», Saratov
Laser speckle interferometry of relative temperature displacement of scattering objects

330. LUKAKHIN P.O., PAVLOV I.N., RASKOVSKAYA I.L.
National Research University "Moscow Power Engineering Institute"
Application of a laser refractive method for measuring the contact wetting angle of a drop laying on a non-transparent substrate

331. ZAKHAROV S.M.
Institute of Electronic Control Machines named after I.S. Brook, Moscow
Photopletysmogram and arterial pressure measurements in real time

332. ZAKHAROV S.M.
Institute of Electronic Control Machines named after I.S Brook, Moscow
Arterial pressure variability on small time intervals

333. ISMANOV Yu.H., TYNYSHOVA T.D.
Institute of Physical-Technical Problems and Material Science of NAS KR, Bishkek, Kyrgyz republic
Reducing the volume of input data during computer processing of interferograms

334. IZOTOVA O.A.[1], RYABUKHO V.P.[1,2]
[1]National Research Saratov State University named after N.G Chernyshevsky
[2]Institute of Precision Mechanics and Control of the RAS, Saratov
Interference microscop with spatial filtration of image field in spatially coherent light

335. BELASHOV A.V.[1,2], ZHIKHOREVA A.A.[1], BELYAEVA T.N.[3], KORNILOVA E.S.[3], SALOVA A.V.[3], SEMENOVA I.V.[1], VASUTINSKII O.S.[1]
[1]Ioffe Physical-Technical Institute of the RAS, Saint-Petersburg
[2]ITMO University, Saint Petersburg
[3]Institute of Cytology of the RAS, Russia
Holographic investigation of cellular membrane rupture as a result of photodynamic treatment

336. LVOVA K.I.[1], PEREVOZNIKOVA A.S.[1,2], MOROZOV A.V.[2,3], PUTILIN A.N.[2], MALINOVSKAYA E.G.[3]
[1]Bauman Moscow State Technical University
[2]Lebedev Physical Institute of the RAS, Moscow
[3]Samsung Research Center, Moscow
Eye tracking device optical system based on waveguide and dispersive properties of diffractive optical element

337. DZHAMANKYZOV N.K., ISMANOV Yu.H.
Institute of Physical-Technical Problems and Material Science of NAS KR, Bishkek, Kyrgyz republic
On the effect of the temperature gradient of a photothermoplastic film on the process of hologram development

338. VORZOBOVA N.D., SOKOLOV P.P.
ITMO University, Saint Petersburg
Formation of three-dimensional objects by the method of holographic 3D printing

339. PEN E.F.
Institute of Automation and Electrometry SB RAS, Novosibirsk
Holographic gratings as passive trackers of solar radiation

340. PEREVOZNIKOVA A.S.[1,2], LVOVA K.I.[1], KOPENKIN S.S.[2,3], DRUZHIN V.V.[1]
[1]Bauman Moscow State Technical University
[2]Lebedev Physical Institute of the RAS, Moscow
[3]MIREA – Russian Technological University, Moscow
High-aperture lenses designing and their application in recording set-ups of the off-axis holographic optical elements

341. ANUFRIK S.S., BUT A.I., LYALIKOV A.M.
Y. Kupala Grodno State University, Belarus
Minimization of the aberrations brought by system of record and substrate of the carrier of the hologram, at formation holographic shearing interferogram

342. KHURCHAK A.P., LATUSHKIN A.A., BELASHOV A.V.[1,2], PETROV N.V.[1]
Marine Hydrophysical Institute of the RAS, Sebastopol
[1]ITMO University, Saint Petersburg
[2]Ioffe Physical-Technical Institute of the RAS, Saint-Petersburg
Digital in-line holography for optical materials biofouling in water environment

343. ARAPOV Yu.D., KAMENEV V.G., DVORNICHENKO M.E.
N.L. Dukhov All-Russian Research Institute of Automatics, Moscow
Research layer recovery of dust volume by holographic technique

344. AVLASEVICH N.T., LYALIKOV A.M.
Y. Kupala Grodno State University, Belarus
Holographic interperometry of real time for dynamic periodic structures

345. GOLENKO G.G.
OJSC "Space Vision", Moscow
Physics and metaphysics of vision

346. GONCHAROV D.S., PONOMAREV N.M., STARIKOV R.S., TROTSENKO N.A., FAZLIEV T.Sh.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Synthesis of the MACE correlation filter for sub-pixel images recognition

347. GONCHAROV D.S., PETROVA E.K., PONOMAREV N.M., STARIKOV R.S.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Investigation of methods of correlation filters synthesis with scene illumination invariance

348. GONCHAROV D.S., PONOMAREV N.M., STARIKOV R.S., TROTSENKO N.A., FAZLIEV T.Sh.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Features of application of color models at images recognition using invariant correlation filters

349. KURBATOVA E.A., CHERYOMKHIN P.A.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
The analysis of block structure of local binarization methods under digital hologram compression

350. RYMOV D.A., CHERYOMKHIN P.A.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Nonlinear non-iterative filter of undesired diffraction orders in digital holography

351. KULAKOV M.N., STARIKOV R.S., CHERYOMKHIN P.A.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Objects reconstruction from single-pixel registrations in digital holography

352. KRASNOV V.V., SHIFRINA A.V., ERKIN I.Yu.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Speckle suppression by display of multiple kinoforms containing sparsed images

353. KOZLOV A.V., CHERYOMKHIN P.A.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Analysis of potential of digital camera sensor optimization by the pixels characteristics varying

354. KRASNOV V.V., RYABCEV I.P.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
The lensless scheme of optical encryption of images under spatially-incoherent illumination

355. KRASNOV V.V., SHIFRINA A.V.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Asymmetric optical encryption of images with spatially incoherent illumination

356. MOLODTSOV D.Yu., KRASNOV V.V., CHERYOMKHIN P.A., RODIN V.G.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Application of micro-mirror modulators for optical encryption of images in spatially incoherent radiation