

# ALL-RUSSIAN CONFERENCE ON PHOTONICS AND INFORMATION OPTICS

January, 2012, 25-27

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The Russian Academy of Sciences  
National Research Nuclear University «MEPhI»

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## The Organizing committee

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## Conference location

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<http://pico.mephi.ru/fio2012/>

## THE PROGRAMM OF CONFERENCE

### CONFERENCE OPENING. PLENARY

Wednesday, January 25, 2012, 13.00 Room 404

1. ANTSYGIN V.D., MAMRASHEV A.A., NIKOLAEV N.A., POTATURKIN O.I.  
*Institute of Automation and Electrometry SB RAS*  
**Wideband terahertz spectroscopy based on interaction of femtosecond laser pulses with  $A_3B_5$  semiconductors**
2. VISHNYAKOV G.N.  
*All-Russian Research Institute for Optical and Physical Measurements, Moscow*  
**Metrological provision of measurement of materials' optical constants**
3. ROMASHKO R.V.  
*Institute of Automation and Control Processes of FEB RAS, Vladivostok*  
**Adaptive interferometric measurement systems based on dynamic holograms**

### PLENARY. LECTURE FOR YOUNG SCIENTISTS

Wednesday, January 25, 2012, 15.00 Room 404

4. MAIMISTOV A.I.  
*National Research Nuclear University «MEPhI»*  
*Moscow Institute of Physics and Technology, Dolgoprudny, Moscow region*  
**Nonlinear backward electromagnetic waves**
5. EVTIKHIEVA O.A., RASKOVSKAYA I.L., RINKEVICHYUS B.S. SKORNYAKOVA N.M., TOLKACHEV A.V.  
*National Research University "Moscow Power Engineering Institute"*  
**Experimental and computer visualization of structured laser radiation**
6. ODINOKOV S.B., KUZNETSOV A.S., LUSHNIKOV D.S., TSYGANOV I.K.  
*Bauman Moscow State Technical University*

7. VEKSHIN M.M., NIKITIN V.A., YAKOVENKO N.A.  
*Kuban State University, Krasnodar*  
**Design and study of planar lightwave circuits for sensor devices**
8. GREBENNIKOV E.P.<sup>1</sup>, ADAMOV G.E.<sup>1</sup>, POROSHIN N.O.<sup>1</sup>, KURBANGALEEV V.R.<sup>1</sup>, ORLOV Yu.S.<sup>1</sup>, MALYSHEV P.B.<sup>1</sup>, SHMELIN P.S.<sup>1</sup>, MAVRITSKIY O.B., EGOROV A.N.  
*National Research Nuclear University «MEPhI»*  
<sup>1</sup>JSC Central Research Technological Institute "Technomach", Moscow  
**Information recording to optical 3D multilayer structures using two-photon absorption**
9. KOROLENKO P.V., MISHIN A.Yu., RYZHIKOVA Yu.V.  
*Lomonosov Moscow State University*  
**Optical properties of aperiodic multilayered structures**
10. MASALSKY N.V.  
*Scientific Research Institute of System Researches of the RAS, Moscow*  
**Scaling of characteristics of the silicon waveguide optical modulator**
11. DANILENKO S.S., KOZLOVA E.K., OSOVITSKII A.N.  
*Peoples' Friendship University of Russia, Moscow*  
**Features waveguide method of measurement parameters of a roughness surface of glasses**
12. NIKOLAEV N.E., PAVLOV S.V., TROFIMOV N.S., CHEKHLOVA T.K.  
*Peoples' Friendship University of Russia, Moscow*  
**Features of temperature dependence of effective refractive index of TE<sub>1</sub>- and TM<sub>1</sub>-modes in zol-gel optical waveguides in temperature range 0-400 °C**
13. VOBLIKOV E.D., PONOMAREV R.S.<sup>1</sup>  
*State National Research Polytechnical University of Perm*  
<sup>1</sup>Perm State National Research University  
**Optical intensity modulator with linearized transfer characteristic**
14. BAKHVALOVA T.N., RUTSKIN S.A.  
*Moscow State Technical University of Radio-Engineering, Electronics and Automation*  
**Spectral filters based on photonic crystal**
15. MUKHTUBAEV A.B., TRENIKHIN P.A., SHANDAROV V.M., CHEN F.<sup>1</sup>  
*Tomsk State University of Control Systems and Radioelectronics*  
<sup>1</sup>Shandong University, China  
**Longitudinal optical modulation of one-dimensional photonic photorefractive lattices to form a contact and onebeam methods in lithium niobate**
16. PERIN A.S., SHANDAROV V.M., CHEN F.<sup>1</sup>  
*Tomsk State University of Control Systems and Radioelectronics*  
<sup>1</sup>Shandong University, China  
**Self-modulation of a light field in a photorefractive Fabry-Perot interferometer**
17. RYZHOV M.S.  
*Scientific Adviser – MAIMISTOV A.I.*  
*National Research Nuclear University «MEPhI»*  
**Threshold for formation of stable stationary waves in the anti-directional coupler**

Posters

18. GOROBETS A.P., KASHURKIN O.Yu., OSOVITSKII A.N.  
*Peoples' Friendship University of Russia, Moscow*  
**Beam propagation analysis of radiation from the edge of a slab graded-index optical waveguide**
19. DANILENKO S.S., OSOVITSKII A.N.  
*Peoples' Friendship University of Russia, Moscow*  
**Losses in optical film waveguides with rough surfaces and absorption**
20. ROMANOV A.A., VEKSHIN M.M., YAKOVENKO N.A.  
*Kuban State University, Krasnodar*  
**Optical waveguide interconnection for optoelectronic PCBs**
21. SAVCHENKO A.G., YAKOVENKO N.A.  
*Kuban State University, Krasnodar*  
**Plasmon-resonant optical filter based on metallic diffraction grating**
22. SHELYAKOV A.V., SITNIKOV N.N., KORNEEV A.A.  
*National Research Nuclear University «MEPhI»*  
**Micromechanical device with shape memory for optical radiation control**

Meeting 2

23. MOLCHANOV V.Ya., CHIZHIKOV S.I., YUSHKOV K.B.  
*National University of Science and Technology «MISIS», Moscow*  
**Adaptive acousto-optical shaping of femtosecond laser pulses**
24. POZHAR V.E.<sup>1,3</sup>, MAZUR M.M.<sup>2</sup>, PUSTOVOIT V.I.<sup>1,3</sup>, SHORIN V.N.<sup>1</sup>, SHURYGIN A.V.<sup>3</sup>  
<sup>1</sup>Scientific and Technological Center of Unique Instrumentation of the RAS, Moscow  
<sup>2</sup>Scientific Research Institute of Physical Technical and Radioengineering Measurements, Mendeleevo, Moscow region

<sup>3</sup>Bauman Moscow State Technical University

**Acousto-optic filtration using linear frequency modulated wave in continuous mode**

25. PUSTOVOIT V.I.<sup>1,2</sup>, TABACHKOVA K.I.<sup>2</sup>, POZHAR V.E.<sup>1,2</sup>

<sup>1</sup>Scientific and Technological Center of Unique Instrumentation of the RAS, Moscow

<sup>2</sup>Bauman Moscow State Technical University

**About collinear diffraction of light at the linear frequency modulated ultrasonic wave**

26. MAXIMENKO V.A., DANILOVA E.V.

Far Eastern State Transport University, Khabarovsk

**Photorefractive light scattering indicatrix in lithium niobate crystals**

27. PARGACHEV I.A., SEREBRENNIKOV L.Ya., SHANDAROV S.M., KRAKOVSKY V.A., MANDEL A.E., ARESTOV S.I.

Tomsk State University of Control Systems and Radioelectronics

**Electro-optic modulators of laser radiation on the basis of high-resistance KTP crystals**

28. SHMAKOV S.S., SHANDAROV S.M., BURIMOV N.I., KARGIN Yu.F.<sup>1</sup>

Tomsk State University of Control Systems and Radioelectronics

<sup>1</sup>Baikov Institute of Metallurgy and Materials Sciences of the RAS, Moscow

**Polarization dependence of the output signal in the adaptive interferometer using reflection holograms in titanate bismuth crystals**

29. CHERNYSHOVA E.A., CHERNYSHOV A.K.

Samara Branch of Lebedev Physical Institute of the RAS

**Doppler profile identification in the diode-laser spectroscopy by wavelets**

30. MAKAROV E.A., BESPALOV V.G.

Saint-Petersburg National Research University of Information Technologies, Mechanics and Optics

**Choosing the best SRS light amplification mode for the temporal optical selection of signals**

31. KIREEVA N.M., KARPETS Yu.M., LITVINOVA M.N., KIRYUSHINA S.I., KUZMICHEV D.N., GONCHAROVA P.S., KRISHTOP V.V.

Far Eastern State Transport University, Khabarovsk

**Control for radiation spectrum in up-conversion processes**

32. GOROBETS A.P., OVCHINNIKOV A.A., POLOVINKIN A.N., RAVIN A.R.

Peoples' Friendship University of Russia, Moscow

**An integral method for solving inverse problem of a beam diagnostic of a thin-film Luneburg lenses**

33. KAZANTSEVA E.V.<sup>1</sup>, MAIMISTOV A.I.

National Research Nuclear University «MEPhI»

Moscow Institute of Physics and Technology, Dolgoprudny, Moscow region

<sup>1</sup>Moscow State Technical University of Radio-Engineering, Electronics and Automation

**Stability study for solitary waves propagating in an extended paraelectric media with embedded ferroelectric layer**

Posters

34. LITVINOVA M.N., GARANKOVA I.A., DYATEL S.G.

Far Eastern State Transport University, Khabarovsk

**The conversion of broadband infrared radiation in the crystals of lithium niobate**

35. SHCHERBINA V.V., BORODIN M.V., SMYCHKOV S.A., SHANDAROV S.M., SEREBRENNIKOV L.Ya., KHAN A.V.<sup>1</sup>, SOLDATKIN V.S.<sup>1</sup>

Tomsk State University of Control Systems and Radioelectronics

<sup>1</sup>Research Institute of Semiconductor Devices, Tomsk

**Investigations of the waveguide properties of epitaxial structure GaN/InGaN on the sapphire structure**

36. PEKARSKIY E.A., KISTENEVA M.G., SHANDAROV S.M., TOLSTIK A.L.<sup>1</sup>, HAIDER H.K.<sup>1</sup>, KARGIN Yu.F.<sup>2</sup>

Tomsk State University of Control Systems and Radioelectronics

<sup>1</sup>Belarusian State University, Minsk

<sup>2</sup>Baikov Institute of Metallurgy and Materials Sciences of the RAS, Moscow

**Photoinduced changes of optical absorption in Bi<sub>12</sub>TiO<sub>20</sub>:Ca crystal by pulse and continuous laser radiation**

37. MARTYNOV A.A., NIKITIN V.A., PROKHOROV V.P., YAKOVENKO N.A.

Kuban State University, Krasnodar

**Research of glass integrated microlenses fabricated by electroinduced ion migration**

38. IVANOV V.I., OKISHEV K.N., REKUNOVA N.N.

Far Eastern State Transport University, Khabarovsk

**Thermal self-action of the light radiation reflecting from a polymer film**

Meeting 3

Thursday, January 26, 2012, 16.00

Room 404

39. MAKIN V.S., MAKIN R.S.<sup>1</sup>, PRIVALOV V.E.<sup>2</sup>

Research Institute for Complex Testing of Opto-Electronic Devices, Sosnovy Bor, Leningrad region

<sup>1</sup>Dimitrovgrad Engineering and Technological Institute NRNU MEPhI, Ulyanovsk region

<sup>2</sup>Saint-Petersburg State Polytechnical University

**Polarization-controlled laser metal surface recrystallization**

40. MAKIN V.S., MAKIN R.S.<sup>1</sup>

Research Institute for Complex Testing of Opto-Electronic Devices, Sosnovy Bor, Leningrad region

<sup>1</sup>Dimitrovgrad Engineering and Technological Institute NRNU MEPhI, Ulyanovsk region

**Fundamental universality and dissipative micro- and nanostructures for highly nonlinear systems**

41. CHISTYAKOV A.A., KUZISHCHIN Yu.A., MARTYNOV I.L., DOVZHENKO D.S.

National Research Nuclear University «MEPhI»

**Influence of aromatic molecules vapor sorption on the kinetic of luminescence of nanoporous silicon**

42. CHISTYAKOV A.A., DAYNEKO S.V., OLEINIKOV V.A., ARTEMIEV M.V., ZASEDATELEV A.V.

National Research Nuclear University «MEPhI»

**Photophysical properties of CdSe nanocrystals in the high power laser beam**

43. STROGANOVA E.V., GALUTSKIY V.V., YAKOVENKO N.A., LUTSENKO A.V.  
*Kuban State University, Krasnodar*  
**Quantum efficiency of longitudinal pumping in gradient laser crystals**
44. OBUKHOV A.E.  
*National Research University "Moscow Power Engineering Institute"*  
**Spectral technologies of tuning of superfine interactions in the ground and excited electronics states in the series multiatomic compounds**
45. SIVAK A.V.<sup>1,3</sup>, ZIBROV S.A.<sup>2,3</sup>, VELICHANSKY V.L.<sup>2,3</sup>, VASILIEV V.V.<sup>2,3</sup>, IVANOV D.V.<sup>1,3</sup>, KUZNETSOV A.P.<sup>3</sup>  
<sup>1</sup>*National research nuclear university «MEPhI»*  
<sup>2</sup>*Lebedev Physical Institute of the RAS, Moscow*  
<sup>3</sup>*Advanced Energy Technologies, Ltd, Moscow*  
**Registration of double radio-optical resonance in NV centers in diamonds**
46. KARDAKOVA A.I., ELEZOV M.S., TARKHOV M.A.<sup>1</sup>, KAZAKOV A.Yu., AN P.P., GOL'TSMAN G.N.  
*Moscow State Pedagogical University*  
<sup>1</sup>*SCONTEL Limited, Moscow*  
**Single-photon detection mode of superconducting single photon detector**
47. KAZAKOV A.Yu., ELEZOV M.S., TARKHOV M.A.<sup>1</sup>, AN P.P., GOL'TSMAN G.N.  
*Moscow State Pedagogical University*  
<sup>1</sup>*SCONTEL Limited, Moscow*  
**Single photon registration system in near infrared range**
48. OGLUZDIN V.E.  
*Prokhorov General Physics Institute of the RAS, Moscow*  
**About photons velocity in atomic vapours of potassium**
49. NEUPOKOEVA A.V., MALOV A.N.<sup>1</sup>  
*Irkutsk State Medical University*  
<sup>1</sup>*Technologies of Progress Ltd., Irkutsk*  
**Nanotechnologies for gel-colloidal selfdeveloped holographic recording media synthesis on a dichromated gelatin basis**
50. MOSKVINA V.S., KHILYA V.P., ISCHENKO A.A.<sup>1</sup>  
*Taras Shevchenko National University of Kyiv, Ukraine*  
<sup>1</sup>*Institute of organic chemistry of NASU, Kyiv, Ukraine*  
**Photonics of 6-hetaryl-7-hydroxycoumarins**

Posters

51. SAVINOVSKIY E.G., BOYCHENKO A.P.  
*Kuban State University, Krasnodar*  
**Characteristics electroluminescence polymeric ion-semiconductors**
52. MOISEYENKO V.N., DERGACHOV M.P., DOVBESHKO G.I.<sup>1</sup>, BOYKO V.V.<sup>1</sup>, SHVACHICH V.G.  
*Oles' Honchar Dnipropetrovs'k National University, Ukraine*  
<sup>1</sup>*Institute of Physics of the NASU, Kyiv, Ukraine*  
**Luminescence of silver nanoclusters into photonic crystal volume**
53. MOISEYENKO V.N., DERGACHOV M.P., SHVETS T.V., SHVACHICH V.G., BEZSMERTNYJ I.V.  
*Oles' Honchar Dnipropetrovs'k National University, Ukraine*  
**Influence of structural disordering and external resonator on luminescence spectra of opal - rhodamine 6G nanocomposites**
54. IVANOV V.I., IVANOVA G.D., KHE V.K.  
*Far Eastern State Transport University, Khabarovsk*  
**A thermal lens response in the two components liquid medium**
55. MELEKHOV A.P., LAVRUKHINE D.V.  
*National Research Nuclear University «MEPhI»*  
**The application of the temperature stabilization for researching into the effect of the magnetic field on properties of water and its solutions**
56. DUDKINA T.D., EGORYSHEVA A.V.<sup>1</sup>, VOLODIN V.D.<sup>1</sup>, CHISTYAKOV A.A., LOBAZNIKOVA V.S.<sup>2</sup>  
*National research nuclear university «MEPhI»*  
<sup>1</sup>*Kurnakov Institute of General and Inorganic Chemistry of the RAS, Moscow*  
<sup>2</sup>*School № 978, Moscow*  
**Eu-activated bismuth-barium-borate glasses**

*Meeting 4*

Friday, January 27, 2012, 10.00

Room 404

57. ROMASHKO R.V., BEZRUK M.N., KULCHIN Yu.N.  
*Institute of Automation and Control Processes of RAS, Vladivostok*  
**Adaptive distributed interferometric system for tomographic reconstruction of weak vibration field**
58. LAPITSKIY K.M., SIMANZHENKOV D.V.  
*National Research University "Moscow Power Engineering Institute"*  
**Modelling of the refraction images in computer-laser system of gas stream visualization**
59. KORNYSHEVA S.V., VISHNYAKOV G.N.  
*All-Russian Research Institute for Optical and Physical Measurements, Moscow*  
**Measurements of dispersion of the refractive index**
60. SHASHKOVA I.A., SKORNYAKOVA N.M.  
*National Research University "Moscow Power Engineering Institute"*  
**The visualization of liquid drops evaporation process by background oriented schlieren method**
61. LYCHAGOV V.V., KALYANOV A.L., RYABUKHO V.P.  
*Saratov State University*  
**The effect of dispersion on the signal of interference microscope with a broadband light source**

62. BUSURIN V.I., ZVEI NEI ZO, DVORNIKOVA O.D., MISTCHENKO O.A.  
*Moscow Aviation Institute (National Research University)*  
**Research of mathematical model of pressure transducer based on optical tunnel effect**
63. BELOVOLOV M.I.<sup>2</sup>, ZAINULLIN E.F.<sup>1,2</sup>, TURTAEV S.N.<sup>1,2</sup>  
<sup>1</sup>*National research nuclear university «MEPhI»*  
<sup>2</sup>*Fiber Optic Research Center of the RAS, Moscow*  
**Optical fiber interferometer based hydrophone**
64. KULCHIN Yu.N., VITRIK O.B., KRAEVA N.P.  
*Institute of Automation and Control Processes of RAS, Vladivostok*  
**Remote laser method for monitoring the parameters of hydroacoustic vibrations**
65. BASISTY E.V., KOMOTSKII V.A., SOKOLOV Yu.M.  
*Peoples' Friendship University of Russia, Moscow*  
**Diffraction type modulator of coherent radiation**
66. LEVIN I.A.  
*Penza State University of Architecture and Construction*  
**Possibility of diffractive-refractive optical system of vacuum ultraviolet range**
67. EZERSKAYA A.A., SMOLYANSKAYA O.A., ROMANOV I.V.<sup>1</sup>, PARAHUDA S.E., GRACHEV Ya.V., GONCHARENKO A.O.<sup>2</sup>  
*Saint-Petersburg National Research University of Information Technologies, Mechanics and Optics*  
<sup>1</sup>*Tomsk State University*  
<sup>2</sup>*Krasnodar Branch of Fyodorov Eye Microsurgery Complex*  
**THz transmission and reflection спектра of pathologic lens and hard tissues of human**

Posters

68. ROMASHKO R.V., EFIMOV T.A., NEPOMNYASHCHIIY A.V., KULCHIN Yu.N.  
*Institute of Automation and Control Processes of FEB RAS, Vladivostok*  
**Micromechanical mass sensor with adaptive holographic interferometer**
69. KAMENEV O.T., PETROV Yu.S., KOLCHINSKIY V.A.  
*Institute of Automation and Control Process of FEB RAS, Vladivostok*  
**Creating a fiber-optic measuring network for the registration of the deformation impacts**
70. ZVERZHKHOVSKIY V.D., KLEMYASHOV I.V., TYCHINSKIY V.P.  
*Moscow State Technical University of Radio-Engineering, Electronics and Automation*  
**Visualization of submicron conglomerates of diamond nanoparticles by coherent phase microscopy**
71. KORNYSHEVA S.V.  
*All-Russian Research Institute for Optical and Physical Measurements, Moscow*  
**Dependence of metrological characteristics of refractive index measurements using goniometric method on fabrication quality of optical elements**
72. RASKOVSKAYA I.L.  
*National Research University "Moscow Power Engineering Institute"*  
**Quantitative laser diagnostics of physical processes in liquid**
73. MIKHALEV A.S., MIKHALEVA E.M.  
*National Research University "Moscow Power Engineering Institute"*  
**Background oriented schlieren method setup elements choice peculiarities**
74. NAZIMOV A.S.  
Scientific Adviser –SHTEIN G.I.<sup>1</sup>  
*Saint-Petersburg National Research University of Information Technologies, Mechanics and Optics*  
<sup>1</sup>*Institute of Cytology of the RAS, Saint-Petersburg*  
**Determination of main parameters of laser scanning confocal microscope**
75. ANUFRIK S.S., LYAVSHUK I.A., LYALIKOV A.M., SVIRIDOV E.V.  
*Janka Kupala State University, Grodno, Belarus*  
**Analysis of measuring features of interferometric methods for studying weak optical inhomogeneity with a small transverse size**
76. LYALIKOV A.M.  
*Janka Kupala State University, Grodno, Belarus*  
**Reducing the error of residual wedge angle measurement on plates by shear interferometry**

*Meeting 5*

Friday, January 27, 2012, 13.00

Room 404

77. BELKIN M.E.  
*Moscow State Technical University of Radio-Engineering, Electronics and Automation*  
**Impact of the optoelectronic components on the performance of analog microwave-band fiber-optic system**
78. FATJANOVA N.G., VASICHEV B.N.  
*Moscow State Institute of Electronics and Mathematics (Technical University)*  
**Электронно-лучевой быстродействующий процессор**
79. ARONOV L.A., GRACHEV S.V., USHAKOV V.N.  
*Saint-Petersburg State Electrotechnical University "LETI"*  
**Wideband acoustooptic time integration spectrum analyzer**
80. VEKSHIN Yu.V., LAVROV A.P.  
*Saint-Petersburg State Polytechnical University*  
**Diffraction of optical waves in a thick phase grating. Simulation in GLAD program**
81. KUZMINA M.G.<sup>1</sup>, GRICHUK E.S., MANYKIN E.A.<sup>2</sup>  
*National research nuclear university «MEPhI»*  
<sup>1</sup>*Keldysh Institute of Applied Mathematics of the RAS, Moscow*  
<sup>2</sup>*National Research Center "Kurchatov institute", Moscow*

- Systems of stochastic oscillators and one-way quantum computation**
82. BEKYASHEVA Z.S., PAVLOV A.V.  
*Saint-Petersburg National Research University of Information Technologies, Mechanics and Optics*
- Holographic predictor of stochastic processes: influence of image and filter characteristics on statistical moments estimation**
83. MALOV A.N.<sup>1</sup>, PAVLOV P.V., PETROV N.V.<sup>2</sup>, SINITSYN I.A.  
*Air Force Engineering University, Voronezh*  
<sup>1</sup>*Technologies of Progress Ltd, Irkutsk*  
<sup>2</sup>*Saint-Petersburg National Research University of Information Technologies, Mechanics and Optics*
- Speckle-pictures from spiral beams correlation processing at a roughness control of details**
84. IVANOV P.A.  
*Yaroslavl State Technical University*
- Usage of MACE filters for recognition of objects with geometry changes**
85. EVTIKHIEV N.N., ZLOKAZOV E.Yu., STARIKOV R.S., SHAULSKY D.V.  
*National research nuclear university «MEPhI»*
- Development of invariant correlation filters for processing of gray scale images obtained from aerial photography**
86. BYKOVSKY A.Yu.<sup>1</sup>, RAGER B.Yu.  
*National research nuclear university «MEPhI»*  
<sup>1</sup>*Lebedev Physical Institute of the RAS, Moscow*
- Ways of learning and correction of the protected world model In a mobile optoelectronic agent**
87. ODINOKOV S.B., SAGATELYAN G.R.  
*Bauman Moscow State Technical University*
- The application of ion-plasma etching of glass for manufacturing of DOE-HOE**

Posters

88. KOMPANETS I.N.<sup>1</sup>, NEEVINA T.A.  
*National research nuclear university «MEPhI»*  
<sup>1</sup>*Lebedev Physical Institute of the RAS, Moscow*
- Optical channels switching with the use of photorefractive material**
89. GONCHAROVA P.S., KRISHTOP V.V.  
*Far Eastern State Transport University, Khabarovsk*
- The Influence of a spectral band emission source on the parameters of electro-optical modulator**
90. NOTKIN B.S., KOLCHINSKIY V.A.  
*Institute of Automation and Control Process of FEB RAS, Vladivostok*
- Data processing of fiber-optic network in the information-measuring systems**
91. MACHIKHIN A.S., POZHAR V.E.  
*Scientific and Technological Center of Unique Instrumentation of the RAS, Moscow*
- Abberation free acousto-optic 2D probe spectrometer**
92. AVERIEV N.V., CHARAYEV I.A., SELEZNEV V.A., SEMENOV A.V., KORNEEV A.A., GOLTSMAN G.N.  
*Moscow State Pedagogical University*
- Dark count speed of superconducting single-photon detector at different temperatures**
93. ZLOKAZOV E.Yu., KURBATOV I.A., PETROVA E.K., STARIKOV R.S., SHAULSKY D.V.  
*National research nuclear university «MEPhI»*
- Investigation of informative capacity and noise characteristics of invariant correlation filters with optimization of the correlation peak parameters**
94. ANDROSOV S.S., SELINA N.V., YAKOVENKO N.A.  
*Kuban State University, Krasnodar*
- Calculation of efficiency of single-mode optical fiber coupling using planar microlenses**
95. YAKOVENKO N.A., SMORSHEVSKY V.S., EPIFANOV A.A.  
*Kuban State University, Krasnodar*
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