

Work Program of the Conference

Main topics of the Conference:

Optics of photorefractive media (symposium A)
Phenomenological linear and nonlinear optics of crystals (symposium B)

Time-limit:

Invited and plenary talks – 30 min. (25 min. +5 min. discussion)

Oral talk – 20 min. (15 min. + 5 min. discussion)

Poster session – 1.5 hours

23 September

8³⁰–11⁰⁰ – Registration of participants of the Conference

11⁰⁰–11³⁰ – Opening of the Conference

11³⁰–13³⁰ – Plenary session

(12³⁰–13⁰⁰ – Coffee Break)

13³⁰–15⁰⁰ – Lunch

15⁰⁰–16³⁰ – Plenary session

18⁰⁰–21⁰⁰ – Get together

24 September

10⁰⁰–11³⁰ – Plenary session

11³⁰–12⁰⁰ – Coffee-break

12⁰⁰–13²⁰ – Oral sessions (symposiums A and B)

13³⁰–15⁰⁰ – Lunch

15⁰⁰–16³⁰ – Poster sessions (symposiums A and B)

16³⁰–17³⁰ – Culture program

18⁰⁰ – Dinner

25 September

10¹⁰–13²⁰ – Oral sessions (symposiums A and B)

(11³⁰–12⁰⁰ – Coffee Break)

13³⁰–15⁰⁰ – Dinner

15⁰⁰–16⁰⁰ – Oral sessions (symposium B)

16⁰⁰–18⁰⁰ – Excursion

18⁰⁰ – Dinner

26 September 2014

10⁰⁰–11⁰⁰ – Summarizing of the Conference

Speeches of the participants of the Conference

Closing of the Conference

Departure of the Conference participants

Program of the Conference "Optics of Crystals"

23 September 2014

8³⁰–11⁰⁰ – Registration of participants

11⁰⁰–11³⁰ – Opening of the Conference

11³⁰–13³⁰ – Plenary session

Chairmen:, S. Odoulov, S.M. Shandarov

11 ³⁰ –12 ⁰⁰	<p>NEUTRON PHYSICS IN PHOTOREFRACTIVE MATERIALS: FROM RESEARCHES TO APPLICATIONS <u>R.A. Rupp</u>¹, <u>M. Fally</u>¹, <u>J. Klepp</u>¹, <u>C. Pruner</u>², <u>Y. Tomita</u>³, <u>I. Drevensek</u>⁴ ¹ Univ. Wien, Austria ² Univ. Salzburg, Austria ³ University of Electro-Communications, Tokyo, Japan ⁴ Univ. Ljubljana and Josef-Stefan-Institute Ljubljana, Slovenia</p>
12 ⁰⁰ –12 ³⁰	<p>LIGHT COUPLING BETWEEN PHOTOINDUCED WAVEGUIDES AND ANALOGIES TO QUANTUM PHYSICS <u>G. Montemezzani</u>^{1,2}, <u>V. Coda</u>^{1,2}, <u>C. Ciret</u>^{1,2}, <u>M. Alonzo</u>^{1,2}, <u>L. Vittadello</u>^{1,2}, <u>A. A. Rangelov</u>³ ¹ Université de Lorraine, Metz, France ² Supélec, Metz, France ³ Department of Physics, Sofia University, Bulgaria</p>

12³⁰–13⁰⁰ – Coffee Break

13 ⁰⁰ –13 ³⁰	<p>PHOTONICS AND LASER PHYSICS IN BELARUS <u>Sergey V. Gaponenko</u> Association "Optics and Lasers", Minsk, Belarus</p>
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13³⁰–15⁰⁰ – Lunch

15⁰⁰–16³⁰ – Plenary session

Chairmen: Sergey V. Gaponenko, R.A. Rupp

15 ⁰⁰ –15 ³⁰	<p>GENERATION AND PROPAGATION OF HIGH-ORDER BESSEL LIGHT BEAMS IN LINEAR AND NONLINEAR CRYSTALS <u>V.N. Belyi</u>, <u>N.A. Khilo</u>, <u>N.S. Kazak</u> B.I.Stepanov Institute of Physics of National Academy of Sciences of Belarus, Minsk</p>
15 ³⁰ –16 ⁰⁰	<p>FEMTOSECOND PHOTO GALVANIC EFFECT IN CRYSTALS OF CUBIC SYMMETRY <u>Alexei A. Kamshilin</u> Department of Applied Physics, University of Eastern Finland, Kuopio, Finland</p>
16 ⁰⁰ –16 ³⁰	<p>MANIFESTATION OF LOW SYMMETRY IN OPTICAL FOUR- WAVE MIXING: MONOCLINIC Sn₂P₂S₆ <u>A. Shumelyuk</u>, <u>A. Volkov</u>, and <u>S. Odoulov</u> Institute of Physics, National Academy of Sciences of Ukraine, Kyiv</p>

18⁰⁰–21⁰⁰ – Get together

24 September 2014

10⁰⁰–11³⁰ – Plenary session

Chairmen: Alexei A. Kamshilin, G. Montemezzani

10 ⁰⁰ –10 ³⁰	<p>IMPACT OF PIEZOELECTRIC AND FLEXOELECTRIC EFFECTS ON PHOTOREFRACTION <u>S.M. Shandarov¹</u>, <u>V.V. Shepelevich²</u>, <u>N.I. Burimov¹</u> ¹ State University of Control Systems and Radioelectronics, Tomsk, Russia ² I.P.Shamyakin Mozyr State Pedagogical University, Mozyr, Belarus</p>
10 ³⁰ –11 ⁰⁰	<p>RECENT ADVANCES IN DEVELOPMENT OF MULTI-CHANNEL ADAPTIVE INTERFEROMETERS WITH PHOTOREFRACTIVE CRYSTALS <u>R.V. Romashko</u> School of Natural Sciences, Far-Eastern Federal University, Vladivostok, Russia Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia</p>
11 ⁰⁰ – 11 ³⁰	<p>SHG CHARACTERIZATION OF THE PLANAR MICRODOMAIN PATTERNS FABRICATED IN FERROELECTRIC CRYSTALS BY MICROSCOPIC METHODS <u>T.R. Volk¹</u>, <u>L.S. Kokhanchik²</u>, <u>R.V. Gainutdinov¹</u> and <u>E.D. Mishina³</u> ¹ Shubnikov Institute of Crystallography RAS, Moscow, Russia ² Institute of Microelectronics Technology and High Purity Materials RAS, Chernogolovka, Moscow District ³ Moscow State Institute of Radio Engineering, Electronics and Automation, Russia</p>

11³⁰–12⁰⁰ – Coffee Break

12⁰⁰–13²⁰ – Oral sessions (symposiums A and B)

SYMPOSIUM A

Chairmen: R.V. Romashko, T.R. Volk

12 ⁰⁰ –12 ²⁰	<p>APPLICATIONS OF Sn₂P₂S₆ PHOTOREFRACTIVE CRYSTALS IN OPTICAL SCHEMES WITH MODULATED BEAMS <u>A. Grabar¹</u>, <u>P. Mathey²</u>, <u>G. Gadret²</u> ¹ Institute of Solid State Physics and Chemistry, Uzhgorod National University, Uzhgorod, Ukraine ² Laboratoire Interdisciplinaire Carnot de Bourgogne (ICB), Dijon, France</p>
12 ²⁰ –12 ⁴⁰	<p>ENERGY TRANSFER OF ELLIPTICALLY POLARIZED PHASE-MODULATED BEAMS IN GYROTROPIC PHOTOREFRACTIVE CRYSTALS WITH NON-LOCAL RESPONSE <u>N.M. Kozhevnikov</u> Saint-Petersburg State Polytechnic University, Russia</p>
12 ⁴⁰ –13 ⁰⁰	<p>LIGHT DIFFRACTION IN OPTICALLY MODULATED WAVEGUIDE ARRAY FORMED IN LITHIUM NIOBATE BY DIRECT LASER WRITING <u>V. Shandarov¹</u>, <u>A. Kanshu¹</u>, <u>V. Kruglov¹</u>, <u>A. Perin¹</u>, <u>D. Petnev¹</u>, <u>F. Chen²</u> ¹ Tomsk State University of Control Systems and Radioelectronics, Tomsk, Russia ² School of Physics, Shandong University, Jinan, People's Republic of China</p>

13 ⁰⁰ –13 ²⁰	<p align="center">PHOTOREFRACTIVE MATERIALS: FROM LABORATORY TO INDUSTRY</p> <p align="center"><u>S. Zamiri</u>^{1,2}, <u>B. Reitingner</u>^{1,2}, <u>T. Berer</u>^{1,2}, <u>M. Rodríguez</u>⁴, <u>S. Bauer</u>³, <u>P. Burgholzer</u>^{1,2}, <u>A.A. Grabar</u>⁵, <u>J.L. Maldonado</u>⁴</p> <p>¹ Christian Doppler Laboratory for Photoacoustic Imaging and Laser Ultrasonics, Science Park 2, Linz, Austria ² Research Center for Non-Destructive Testing, Linz, Austria ³ Department of Soft Matter Physics, Johannes Kepler Universität Linz, Linz, Austria ⁴ Centro de Investigaciones en Óptica AC, León, México ⁵ Institute of Solid State Physics and Chemistry Uzhgorod National University, Uzhgorod, Ukraine</p>
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SYMPOSIUM B

Chairmen: L.I. Ivleva, Yu.N. Kulchin

12 ⁰⁰ –12 ²⁰	<p align="center">UNIVERSAL FORMALISM FOR TOPOLOGICAL EFFECTS IN OPTICS AND ACOUSTICS OF ABSORPTIVE CRYSTALS</p> <p align="center"><u>V.I. Alshits</u>, <u>V.N. Lyubimov</u></p> <p align="center">Shubnikov Institute of Crystallography, Russian Academy of Sciences Leninskii, Moscow, Russia</p>
12 ²⁰ –12 ⁴⁰	<p align="center">ALL-SPACE EXISTENCE AND DISPERSION OF A THERMAL DIRECTIONS IN KGd(WO₄)₂ AND KY(WO₄)₂ LASER HOST CRYSTALS</p> <p align="center"><u>V.V. Filippov</u>¹, <u>P.A. Loiko</u>², <u>K.V. Yumashev</u>²</p> <p>¹ B.I. Stepanov Institute of Physics, Belarusian National Academy of Sciences, Minsk, Belarus ² Center for Optical Materials and Technologies, Belarusian National Technical University, Minsk, Belarus</p>
12 ⁴⁰ –13 ⁰⁰	<p align="center">INTERACTION OF BESSEL LIGHT BEAMS WITH SEMI-INFINITE EPSILON-NEAR-ZERO METAMATERIALS</p> <p align="center"><u>S.N. Kurilkina</u>^{1*}, <u>V.N. Belyi</u>¹, <u>N.S. Kazak</u>¹, <u>Mohammed A. Binhussain</u>²</p> <p>¹ B.I. Stepanov Institute of Physics, National Academy of Sciences of Belarus, Minsk, Belarus ² The National Center for Building System KACST, Riyadh, Saudi Arabia</p>
13 ⁰⁰ –13 ²⁰	<p align="center">PULSE RESPONSE OF MAGNETO-OPTIC EFFECTS IN A MICROSTRUCTURED FIBER WITH FERROFLUID CLADDING</p> <p align="center"><u>Petr Agruzov</u>¹, <u>Ivan Pleshakov</u>¹, <u>Alexander Shamray</u>¹, <u>Efim Bibik</u>²</p> <p>¹ Ioffe Institute, Saint-Petersburg, Russia ² Department of Colloid Chemistry, Saint Petersburg State Institute of Technology, Saint-Petersburg, Russia</p>

13³⁰–15⁰⁰ – Lunch

15⁰⁰–16³⁰ – Poster sessions (symposiums A and B)

SYMPOSIUM A

Chairmen: S.M. Kostritskii, A.V. Syuy

**SPECTRAL DEPENDENCES OF THE IMPURITY OPTICAL ABSORPTION
IN SILLENITE-TYPE CRYSTALS**

S.M. Shandarov¹, M.G. Kisteneva¹, E.S. Khudyakova¹, A.S. Akrestina¹, V.G. Dyu¹, Yu.F. Kargin²

¹Tomsk State University of Control Systems and Radioelectronics, Tomsk, Russia

²Baikov Institute of Metallurgy and Material Sciences of the RAS, Moscow, Russia

**NONLINEAR ABSORPTION, NONLINEAR SCATTERING AND OPTICAL LIMITING
IN PHOTOREFRACTIVE ZIRCONIUM-DOPED LiNbO₃ CRYSTALS**

S.M. Kostritskii¹, M. Aillerie², E. Kokanyan³, O.G. Sevostyanov⁴

¹RPC Optolink, Zelenograd, Moscow, Russia

²LMOPS, University of Lorraine and Supelec, Metz, France

³Institute for Physical Research, National Academy of Sciences of Armenia, Ashtarak

⁴Phys. Dept., Kemerovo State University, Kemerovo, Russia

**RESEARCH OF HOMOGENEITY AND PHOTOREFRACTIVE PROPERTIES
OF LITHIUM NIOBATE CRYSTALS DOPED WITH ZINC**

N.V. Sidorov¹, A.A. Yanichev¹, M.N. Palatnikov¹, A.A. Gabain¹, O.Y. Pikoul²

¹ Federal State Budget Institution of Science Institute of Chemistry and Technology of Rare Elements and Mineral Raw Materials, Kola Scientific Center, Russian Academy of Sciences, Apatity, Akademgorodok, Russia

² Federal State Budget Institution of Education Far Eastern State Transport University, Khabarovsk, Russia

**MODELING OF DEFECT STATES AND FOUR-WAVE MIXING
IN Sn₂P₂S₆:Te PHOTOREFRACTIVE CRYSTALS**

B. Roskin, K. Glukhov, T. Chutora, I. Stoika, A. Grabar

Institute of Solid State Physics and Chemistry, Uzhgorod National University, Uzhgorod, Ukraine

**DYNAMICS OF PYROELECTRIC SELF-FOCUSING OF LASER BEAMS IN REDUCED
LiNbO₃ CRYSTALS**

O.G. Sevostyanov¹, S.M. Kostritskii², M. Chauvet³, J. Safioui³, M. Aillerie⁴

¹ Phys. Dept., Kemerovo State University, Kemerovo, Russia

² RPC Optolink Ltd, Zelenograd, Moscow, Russia

³ Institute FEMTO-ST, Université de Franche-Comté, Besançon, France

⁴ LMOPS, Université de Lorraine et Supelec, Metz, France

SECONDARY PHOTOREFRACTIVE CENTERS IN SPS

Ya. Skrypka¹, A. Shuymelyuk¹, S. Odoulov¹, S. Basun^{2,3} and D. Evans³

¹ Institute of Physics, National Academy of Sciences, Kyiv, Ukraine

² Azimuth Corporation, Dayton, Ohio, USA

³ Air Force Research Laboratory, Materials and Manufacturing Directorate, USA

SUPPRESSION OF PHOTOREFRACTION IN LITHIUM NIOBATE CRYSTALS

A.V. Syuy¹, N.V. Sidorov², M.N. Palatnikov², D.S. Shtarev¹

¹ Far Eastern State Transport University, Khabarovsk, Russia

² I.V. Tananaev Institute of Chemistry and Technology of Rare Elements and Mineral Raw Materials, Apatity, Russia

**DYNAMIC INTERFEROMETER ON THE BASIS OF Sn₂P₂S₆
PHOTOREFRACTIVE CRYSTAL**

M.V. Tsyhyka, A.A. Grabar, I.M. Stoika

Institute of Solid State Physics and Chemistry, Uzhgorod National University, Uzhgorod, Ukraine

**INTERACTION OF THE NARROW GAUSSIAN BEAM
WITH VORTEX BEAM IN CUBIC OPTICALLY ACTIVE
PHOTOREFRACTIVE CRYSTAL**

Zh.V. Kolyadko, V.V. Davydovskaya, V.V. Shepelevich
I.P. Shamyakin Mozyr State Pedagogical University, Mozyr, Belarus

SYMPOSIUM B

Chairmen: P.A. Khilo, G.V. Kulak

WAVE TRANSFORMATIONS IN THIN METAMATERIAL LAYERS

I.A. Faniayeu¹, V.S. Asadchy^{1,2}, I.V. Semchenko¹, S.A. Khakhomov¹

¹Department of General Physics, Gomel State University, Belarus

²Department of Radio Science and Engineering, Aalto University, Aalto, Finland

**DETERMINATION OF POLYMER FILMS ANISOTROPY
BY STOKES POLARIMETRY METHOD**

A.Yu. Zhumar¹, V.A. Dlugunovich¹, N.A. Ivanova², O.A. Daineko²

¹B.I. Stepanov Institute of Physics of the NAS of Belarus, Minsk, Belarus

²Institute of Chemistry of New Materials of the NAS of Belarus, Minsk, Belarus

**TRANSFORMATION OF THE ORDER OF BESSEL LIGHT BEAMS IN GYROTROPIC
CRYSTALS**

P.A. Khilo¹, V.N. Belyi², E.S. Petrova¹, N.A. Khilo²

¹Gomel State Technical University, Gomel, Belarus

²B.I. Stepanov Institute of Physics of NAS of Belarus, Minsk, Belarus

POSSIBLE VARIANTS OF OPTICAL AXES IN ABSORBING CRYSTALS

A.F. Konstantinova, T.G. Golovina, E.A. Evdischenko, K.K. Konstantinov

Institute of Crystallography RAS, Moscow, Russia

**DEPENDENCE OF ELECTRO-OPTICAL EFFICIENCY
OF GUIDED-WAVE MODULATORS ON PHASE COMPOSITION
OF PROTON-EXCHANGED LiNbO₃ WAVEGUIDES**

***S.M. Kostritskii¹, Yu.N. Korkishko¹, V.A. Fedorov¹, O.G. Sevostyanov²,
I.M. Chirkova², V.P. Mitrokhin¹***

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**LANGASITE-TYPE CRYSTALS: HETEROGENEITY AND POINT DEFECTS
*N.S. Kozlova¹, M.B. Bykova¹, O.A. Buzanov², I.S. Didenko¹, A.P. Kozlova¹, N.A. Siminel¹***

¹NUST "MISIS", Moscow, Russia

²Company Fomos-Materials, Moscow, Russia

**ACOUSTOOPTICAL TRANSFORMATION OF GAUSSIAN LIGHT BEAMS INTO
BESSEL ONE UNDER CONDITIONS OF INTERNAL CONICAL REFRACTION**

G.V. Kulak¹, G.V. Krokh¹, P.I. Ropot²

¹I.P. Shamyakin Mozyr State Pedagogical University, Mozyr, Belarus

²B.I. Stepanov Inst. of Phys. NASB, Minsk, Belarus

**COLLINEAR ACOUSTOOPTICAL COUPLING IN MULTIMODE
FIBER-OPTIC WAVEGUIDES**

A.E. Anisimova¹, V.G. Gudelev², G.V. Kulak¹, T.V. Nikolaenko¹

¹I.P. Shamyakin Mozyr State Pedagogical University, Mozyr, Belarus

²B.I. Stepanov Inst. of Phys. NASB, Minsk, Belarus

**OPTIMIZATION OF OPTICAL SCHEME WITH BIAxIAL CRYSTAL
FOR GENERATION OF RADially OR AZIMUTHALLY POLARIZED
LASER RADIATION**

A.A. Ryzhevich, S.V. Solonevich, N.A. Khilo, N.A. Kazak

Institute of Physics of NAS of Belarus, Minsk, Belarus

**ELECTRO-OPTICAL MODULATION OF BROADBAND RADIATION
IN A SYSTEM OF TWO IDENTICAL LITHIUM NIOBATE CRYSTALS**
A.V. Syuy, Yu.M. Karpets, V.V. Krishtop, P.S. Goncharova, D.S. Shtarev, N.M. Kireeva
Far Eastern State Transport University, Khabarovsk, Russia

**EFFECT OF CONFIGURATION INTERACTION ON STARK SPLITTING
OF Tm³⁺ ION MULTIPLETS IN LuVO₄**
L.A. Fomicheva¹, A.A. Kornienko², E.V. Pavlova²
¹ Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus
² Vitebsk State Technological University, Vitebsk, Belarus

**INFLUENCE OF OPPOSITE PARITY EXCITED CONFIGURATIONS ON ABSORPTION
INTENSITY TRANSITIONS Tm³⁺ ION
IN YTTRIUM VANADATES**
E.B. Dunina¹, L.A. Fomicheva², A.A. Kornienko¹, V.A. Belchikova¹
¹ Vitebsk State Technological University, Vitebsk, Belarus
² Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus

**ON SIMULATING A MEDIUM WITH THE PROPERTY OF THE IDEAL MIRROR
FOR THE LIGHT AND SPIN 1/2 PARTICLES**
E.M. Ovsyuk¹, O.V. Veko¹, V.M. Red'kov²
¹ I.P. Shamyakin Mozyr State Pedagogical University, Mozyr, Belarus
² B.I. Stepanov Institute of Physics of National Academy of Science of Belarus, Minsk, Belarus

16³⁰–17³⁰ – Concert of ensemble of old-time music in Belarus «Albaruteniya»
18⁰⁰ – Dinner

25 September 2014

10¹⁰–13²⁰ – Oral session (symposiums A and B)

SYMPOSIUM A

Chairmen: A.A. Grabar, V. Shandarov

10 ¹⁰ –10 ³⁰	<p>POLARIZATION DEPENDENT PHOTOREFRACTIVE ANISOTROPY IN AZO DYE FILM</p> <p><i>A.A. Murauski, A.A. Muravsky, <u>V.S. Bezruchenko</u>, V.S. Miculich</i> Institute of Chemistry of New Materials NAS of Belarus, Minsk, Belarus</p>
10 ³⁰ –10 ⁵⁰	<p>SPECTRAL CHARACTERISTICS OF PULSED PHOTOCONDUCTIVITY OF THE UNDOPED BISMUTH SILICATE SINGLE CRYSTAL</p> <p><i><u>T.A. Kornienko</u>, A.L. Tolstik</i> Belarusian State University, Minsk, Belarus</p>
10 ⁵⁰ –11 ¹⁰	<p>ELECTROOPTICAL AND NONLINEAR OPTICAL PROPERTIES OF Zn-DOPED LITHIUM NIOBATE CRYSTALS</p> <p><i><u>M.N. Litvinova</u>, V.A. Litvinova, Y.V. Ponomarchuk</i> Far Eastern State Transport University, Khabarovsk, Russia</p>
11 ¹⁰ –11 ³⁰	<p>DIFFRACTION EFFICIENCY OF MIXED HOLOGRAMS IN BTO CRYSTAL</p> <p><i>V.V. Shepelevich¹, <u>A.V. Makarevich</u>¹, S.M. Shandarov²</i> ¹ I.P.Shamyakin State Pedagogical University, Mozyr, Belarus, ² State University of Control System and Radioelectronics, Tomsk, Russia</p>

SYMPOSIUM B

Chairmen: V.V. Filippov, V.N. Lyubimov

10 ¹⁰ –10 ³⁰	<p>BROADBAND INFRARED QUARTER WAVE PLATE REALIZATION IN A 3D ARRAY</p> <p><i><u>A. Balmakou</u>¹, I. Semchenko¹, S. Khakhomov¹, M. Nagatsu², V. Mizeikis², and V. Asadchy^{1,3}</i> ¹ Gomel State University, Faculty of Physics, Gomel, Belarus ² Shizuoka University, Graduate School of Science and Technology, Department of Nanovision Technology, Hamamatsu, Japan ³ Aalto University, School of Electrical Engineering, Department of Radio Science and Engineering, Aalto, Finland</p>
10 ³⁰ –10 ⁵⁰	<p>FABRICATION AND CHARACTERIZATION OF NEGATIVE-C CRYSTAL FILM</p> <p><i><u>V.S. Bezruchenko</u>, A.A. Murauski, A.A. Muravsky, N.A. Ivanova, V.E. Agabekov</i> Institute of Chemistry of New Materials NAS of Belarus, Minsk, Belarus</p>
10 ⁵⁰ –11 ¹⁰	<p>THE PROPERTIES OF TRANSITION IONS MODIFIED STRONTIUM BARIUM NIOBATE CRYSTALS</p> <p><i><u>L.I. Ivleva</u>¹, G.M. Kuz'micheva², P.A. Lykov¹, P.G. Zverev¹, V.V. Osiko¹</i> ¹ Prokhorov General Physics Institute RAS, Moscow, Russia, ² Lomonosov State University of Fine Chemical Technology, Moscow, Russia</p>

11 ¹⁰ –11 ³⁰	<p>NONLINEAR OPTICAL EFFECT IN KGW CRYSTAL AT CONTINUOUS-WAVE EXCITATION DUE TO RESIDUAL RARE-EARTH IONS</p> <p><i><u>I.A. Khodasevich</u>¹, A.S. Grabtchikov¹, A.A. Kornienko², E.B. Dunina², Do Quoc Khanh³, Nguyen Dai Hung³</i></p> <p>¹ B.I. Stepanov Institute of Physics, National Academy of Sciences of Belarus, Minsk, Belarus</p> <p>² Vitebsk State Technological University, Vitebsk, Belarus</p> <p>³ Institute of Physics, Vietnam Academy of Science and Technology, Vietnam</p>
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11³⁰–12⁰⁰ – Coffee Break

SYMPOSIUM A

12 ⁰⁰ –12 ²⁰	<p>LIGHT SCATTERING AT INTERACTION OF OPTICAL BEAMS WITH A LAYER ON THE BASIS OF NANOPOROUS ALUMINUM OXIDE</p> <p><i><u>A.P. Ropot</u>^{1*}, V.N. Belyi¹, P.I. Ropot¹, Mohammed A. Binhussain², A.G. Mashchenko¹</i></p> <p>¹ B.I. Stepanov Institute of Physics, National Academy of Sciences of Belarus, Minsk, Belarus</p> <p>² The National Center for Building System KACST, Riyadh, Saudi Arabia</p>
12 ²⁰ –12 ⁴⁰	<p>INTEGRATED STUDIES OF STRUCTURAL AND OPTICAL HOMOGENEITIES OF THE Zn-DOPED LiNbO₃ CRYSTALS</p> <p><i><u>N.V. Sidorov</u>, M.N. Palatnikov, N.A. Teplyakova, A.A. Yanichev, A.A. Gabain</i></p> <p>I.V. Tananaev Institute of Chemistry and Technology of Rare Elements and Mineral Raw Materials, Kola Science Center, Russian Academy of Sciences, Apatity, Russia</p>
12 ⁴⁰ –13 ⁰⁰	<p>MANIFESTATION OF THE PHOTOREFRACTIVE EFFECT IN RAMAN SPECTRA OF LITHIUM NIOBATE CRYSTALS</p> <p><i><u>A.V. Syuy</u>¹, N.V. Sidorov², M.N. Palatnikov², D.S. Shtarev¹</i></p> <p>¹ Far Eastern State Transport University, Khabarovsk, Russia</p> <p>² I.V. Tananaev Institute of Chemistry and Technology of Rare Elements and Mineral Raw Materials, Apatity, Russia</p>
13 ⁰⁰ –13 ²⁰	<p>FAST LOCAL PHOTOREFRACTIVE RESPONSE IN DOPED STRONTIUM BARIUM NIOBATE CRYSTALS AND ITS EFFECT ON TWO-WAVE MIXING PROCESSES</p> <p><i><u>N.V. Bogodaev</u></i></p> <p>A.M. Prokhorov General Physics Institute Russian Academy of Sciences, Moscow, Russia</p>

SYMPOSIUM B

12 ⁰⁰ –12 ²⁰	<p>LIGHT DIFFRACTION ON ACOUSTOPHOTOREFRACTIVE DYNAMIC GRATINGS <u>G.V. Kulak</u> and <u>A.G. Matveeva</u> I.P. Shamyakin Mozyr State Pedagogical University, Mozyr, Belarus</p>
12 ²⁰ –12 ⁴⁰	<p>PHOTONICS OF SELF-ORGANIZING BIOMINERAL NANOSTRUCTURES <u>Yu.N. Kulchin</u> Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia</p>
12 ⁴⁰ –13 ⁰⁰	<p>MODIFIED MINIMUM DEVIATION METHOD FOR DETERMINATION OF THERMO-OPTIC COEFFICIENTS IN THE ANISOTROPIC CRYSTALS <u>P.A. Loiko</u>¹, <u>V.V. Filippov</u>², <u>K.V. Yumashev</u>¹, <u>N.V. Kuleshov</u>¹ ¹ Center for Optical Materials and Technologies, Belarusian National Technical University, Minsk, Belarus ² B.I. Stepanov Institute of Physics, Belarusian National Academy of Sciences, Minsk, Belarus</p>
13 ⁰⁰ –13 ²⁰	<p>PHOTODEFLECTION SPECTROSCOPY OF MAGNETOACTIVE SUPERLATTICES IRRADIATED WITH BESSEL LIGHT BEAMS <u>G.S. Mityurich</u>¹, <u>E.V. Chernenok</u>², <u>V.V. Sviridova</u>², <u>A.N. Serdyukov</u>² ¹ Belarusian Trade and Economics University, Gomel, Belarus ² Skoryna F. Gomel State University, Gomel, Belarus</p>

13³⁰–15⁰⁰ – Lunch

15⁰⁰–16⁰⁰ – Oral session (symposium B)

SYMPOSIUM B

Chairmen: P.A. Loiko, Alexander Shamray

15 ⁰⁰ –15 ²⁰	<p>POLARIZATIONS GRATINGS BASED ON PHOTOREFRACTIVE EFFECT IN PURE NEMATICS WITH NO PHOTO-CHARGE EXCITATION <u>Sergei Slussarenko</u> Institute of Physics National Academy of Sciences, Kyiv, Ukraine</p>
15 ²⁰ –15 ⁴⁰	<p>USING THE PARAMETERS OF LOW-INTENSITY "EXTRA" LINES IN THE RAMAN SPECTRUM TO VALUE RATIO LI/NB AND STRUCTURAL PERFECTION OF LITHIUM NIOBATE CRYSTALS <u>N.V. Sidorov</u>¹, <u>M.N. Palatnikov</u>¹, <u>A.A. Kruk</u>¹, <u>A.V. Syuy</u>², <u>D.S. Shtarev</u>² ¹ I.V. Tananaev Institute of Chemistry and Technology of Rare Elements and Mineral Raw Materials, Apatity, Russia ² Far Eastern State Transport University, Khabarovsk, Russia</p>
15 ⁴⁰ –16 ⁰⁰	<p>UPCONVERSION FLUORESCENCE IN Er,Yb:YGdVO₄ AND Er,Yb:YVO₄ CRYSTALS FOR TEMPERATURE MEASUREMENT <u>M. Khodasevich</u>, <u>G. Sinitsyn</u>, <u>Y. Varaksa</u> B.I. Stepanov Institute of Physics NAS Belarus, Minsk, Belarus</p>

16⁰⁰–18⁰⁰ – Excursion

18⁰⁰ – Dinner

26 September 2014

10⁰⁰–11⁰⁰ – Summarizing of the conference
Speeches of the participants of the conference
Closing of the Conference
Departure of the Conference participants