Section 3-5. PHOTONICS AND INFORMATION OPTICS

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Meeting 1

Thursday, January 24, 2008, 10.00	Room 110
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- SYUY A.V. Far Eastern State Transport University, Khabarovsk, Russia Record of the image noncoherent broadband radiation in niobate lithium crystals
 KRISHTOP V.V. Far Eastern State Transport University, Khabarovsk, Russia Control of radiation spectrum
 VLASOV N.G., KULISH S.M.
- Moscow State University of Technology "Stankin" Nonlinear data processing of interferogram (theory)
- VLASOV N.G., KULISH S.M. Moscow State University of Technology "Stankin" Nonlinear data processing of interferogram (experiment)
- WOLF I.E., MALOV A.N., SITCHEVSKY A.V.¹ *Irkutsk Higher Air Force Engineer School (Military Institute), Russia,* ¹*Irkutsk State Medical University, Russia* Subsurface defects detection method for transparent and semy-transparent objects
- KULCHIN Yu.N.,VITRIK O.B., LANTSOV A.D. Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia Investigation of the 1-D deformation fields by using the tomographic fiber-optic measuring system
- ROMASHKO R.V., DI GIROLAMO S.¹, KULCHIN Yu.N., KAMSHILIN A.A.¹ Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia, ¹University of Kuopio, Finland

Detection threshold in adaptive interferometer based on multimode-fiber 8. KOMOTSKII V.A., SOKOLOV Yu.M.

Peoples Friendship University of Russia, Moscow Investigation of optoelectronic sensor of angular displacements and vibrations

Meeting 2

Thursday, January 24, 2008, 14.00

Room 110

- 9. CHEKHLOVA T.K., DAVYDOV A.A., TIMAKIN A.G. Peoples Friendship University of Russia, Moscow Optical waveguide on the based sol-gel films
- 10. YATSENKO Yu.P.¹, MAVRITSKII A.O.

Moscow Engineering Physics Institute (State University), ¹Fiber Optics Research Center at Prohorov General Physics Institute of the RAS, Moscow

D-scan measurement of nonlinear refractive index in fibers

- ZAVESTOVSKAYA I.N.¹, MENKOVA N.A., KROHIN O.N.¹ Moscow Engineering Physics Institute (State University), ¹Lebedev Physical Institute of the RAS, Moscow Nonlinear mechanisms in widegap semiconductors and dielectrics under femtosecond laser pulses action
- VITUKHNOVSKY A.G.¹, ISAEV A.A.¹, KOZLOVSKIY K.N. Moscow Engineering Physics Institute (State University), ¹Lebedev Physical Institute of the RAS, Moscow Multiexciton states realization in quantum dots under femtosecond and nanosecond optical pumping
- BASHKEEV A.A. Moscow Engineering Physics Institute (State University) Entanglement dynamics of diatomic systems in the broadband thermostat field
- 14. OZHĒNKO S.S., ELYUTIN S.O., MAIMISTOV A.I. Moscow Engineering Physics Institute (State University) Coherent effects in thin film of metamaterial
- SOROKINA E.A., MAIMISTOV A.I. Moscow Engineering Physics Institute (State University) Modulational instability in Bose-Einstein condensate in optical superlattice
- VAICHAS A.A.¹, MALOV A.N., SHEVCHENKO E.V.¹, NEUPOKOEVA A.V. Irkutsk Higher Air Force Engineer School (Military Institute), Russia, ¹Irkutsk State Medical University, Russia Laser irradiation propagation in liquid photosensitive film

Meeting 3

Filuay, January 25, 2000, 10.00 Routin 1	Friday, January 25, 2008, 10.00	Room 110
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- ESEPKINA N.A., IVANOV S.I., LAVROV A.P., MOLODYAKOV S.A. St.-Petersburg State Polytechnical University, Russia Frequency scale calibration of acoustooptical radiosignals spectrometers
 KONNIK M.V., MANYKIN E.A., STARIKOV S.N.
- KONNIK M.V., MANYKIN E.A., STARIKOV S.N. Moscow Engineering Physics Institute (State University) Increasing linear dynamic range of commercial digital photocameras for opicaldigital imaging systems
- BORODIN A.N., MALOV A.N., MARKIN V.A. Irkutsk Higher Air Force Engineer School (Military Institute), Russia, Image improvement under condition external bright blinding source
- GRICHUK E.S., KUZMINA M.G.¹, MANYKIN E.A. Moscow Engineering Physics Institute (State University), ¹Keldysh Institute of Applied Mathematics of the RAS, Moscow Selective segmentation of images via oscillatory network method
- 21. KAYTUKOV Ch.B. Scientific Technical Centre "Atlas", Moscow

Calculation of the data for electronic lithograph during imitation of a holographic phase relief of an optical hologram

- 22. KUZNETSOV A.S., ODINOKOV S.B. Bauman Moscow State Technical University Optic-electronic system for registration of magnetic signalograms from carriers of videorecording
- BYKOVSKY A.Yu.¹, EGOROV A.A. Moscow Engineering Physics Institute (State University), ¹Lebedev Physical Institute of the RAS, Moscow Protected coding of the fuzzy logic scene model, formed in the agent memory by TV Frames
- ÅLEKSEEV A.M., PAVLOV A.V. St.-Petersburg State University of Information Technologies, Mechanics and Optics, Russia
 On the realizability of non-monotonic thinking by fourier-holography technique

On the realizability of non-monotonic thinking by fourier-holography technique: logic with exceptions

Meeting 4

Friday, January 25, 2008, 14.00 Room 110

25. ROMASHKO R.V., KULCHIN Yu.N., KAMSHILIN A.A.¹ Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia, ¹University of Kuopio, Finland

Multiplexing of dynamic reflective hologram in cubic photorefractive crystal 26. NEUPOKOEVA A.V., MALOV A.N., BORODIN A.N.

Irkutsk Higher Air Force Engineer School (Military Institute), Russia Hologram recording by solid state diode-pumped laser irradiation 27. ODINOKOV S.B., PAVLOV A.Yu.

Bauman Moscow State Technical University The analysis of schemes of devices for reception of security holograms with hidden image and their identifications in the optic-electronic vector-matrix processor

- ODINOKOV S.B., TSIGANOV I.K., BOVSUNOVSKIY I.V. Bauman Moscow State Technical University
 Optical high resolution system of the stand for holograms produced with liquid crystal spatial light modulator
- ODINOKOV S.B., KOVALEV M.S., LUSHNIKOV D.S., MARKIN V.V. Bauman Moscow State Technical University Research of influence of temperature changes of position of a sign in holographic collimator sight
- EVTIKHIEV N.N., ZLOKAZOV E.Yu., SIROTKIN S.I., STARIKOV R.S., STARIKOV S.N. Moscow Engineering Physics Institute (State University) Study of binarization methods for amplitude holographic invariant correlation filters with linear phase factor
- 31. EVTIKHIEV N.N., VOLODARSKY A.I., ZLOKAZOV E.Yu., STARIKOV R.S. Moscow Engineering Physics Institute (State University)

Invariant correlation filters with linear phase factor: realization in the form of binary amplitude holograms for diffractive image correlator

32. KONNIK M.V., RODIN V.G., STARIKOV S.N., TETEREVSKY E.E. Moscow Engineering Physics Institute (State University) Correlator of emissive spectra with computer generated hologram