

November 9		November 10		November 11		November 12		November 13	
12.00-15.00	Registration	9.00-09.30	V. Hizhnyakov	9.00-09.30	R. Reisfeld	9.00-09.30	V. Zapasskii	9.00-09.30	N. Rosanov
		09.30-10.00	J. Teyssier	09.30-10.00	S. Nikitin	09.30-10.00	B. Barbara	09.30-10.00	K. Pukhov
		10.00-10.30	P. Loosdrecht	10.00-10.30	A. Gorokhovskiy	10.00-10.30	M. Reid	10.00-10.20	K. Gerasimov
		10.30-11.00	Coffee Break	10.30-10.50	Coffee Break	10.30-10.50	Coffee Break	10.20-10.50	Coffee Break
		11.00-11.30	A. Moskvina	10.50-11.20	A. Pimenov	10.50-11.10	A. Grabtchikov	10.50-11.10	V. Gorieva
		11.30-11.50	Yu. Orlovskii	11.20-11.50	V. Golubev	11.10-11.30	V. Kalinov	11.10-11.30	O. Adiguzel
		11.50-12.10	M. Eremin	11.50-12.10	V. Gudkov	11.30-11.50	A. Petrov	11.30-11.50	T. Maksimova
		12.10-12.30	M. Sukhachev	12.10-12.30	R. Kubrin	11.50-12.10	M. Khodasevich	11.50-12.10	Y. Sgibnev
		12.30-13.30	Poster Session	12.30-13.30	Poster Session	12.10-12.30	V. Tarasov	12.10-12.30	I. Shtrom
						12.30-12.50	O. Dymshits	12.30-12.50	M. Pudovkin
12.50-13.10	S. Klimin					12.50-13.10	I. Dernichev		
13.10-13.30	M. Doroshenko					13.10-13.30	Closing		
13.30-15.30	Lunch	13.30-15.30	Lunch	13.30-15.30	Lunch				
15.00-15.15	Opening	15.30-16.00	M. Popova	Social Program	15.30-15.50	M. Guzik			
15.15-16.00	V. Zapasskii	16.00-16.30	R. Pisarev		15.50-16.10	G. Malashkevich			
16.00-16.30	A. Meijerink	16.30-17.00	E. Dianov		16.10-16.30	A. Kornienko			
16.30-17.00	S. Feofilov	17.00-17.20	L. Fomicheva		16.30-16.50	V. Chernyshev			
17.00-17.30	V. Arbuzov	17.20-17.40	Coffee Break		16.50-17.10	A. Nizamutdinov			
17.30-18.00	G. Boulon	17.40-18.00	I. Kolesnikov		17.10-17.30	Coffee Break			
18.30-20.00	Welcome Party	18.00-18.20	O. Lipina		17.30-17.50	R. Mikhaylovskiy			
		18.20-18.40	E. Bodunov		17.50-18.10	L. Puntus			
		18.40-19.00	A.K. Soni		18.10-18.30	E. Radzhabov			
					18.30-18.50	N. Romanov			

November 9, Monday

12.00-15.00	Registration
15.00-15.15	Opening
15.15-16.00	Valerii Zapasskii (Saint-Petersburg State University, Russia) P. Feofilov - scholar and tutor
Session 1 (Session chairs: A. Kaplyanskii, N. Nikonorov)	
16.00-16.30	Andries Meijerink (Utrecht University, The Netherlands) Modelling energy transfer in rare earth doped crystals and nanocrystals
16.30-17.00	Sergey Feofilov (Ioffe Institute, Russia) Inhomogeneous Broadening: Symmetry of Centers and Disorder in Solid Solutions and Nanocrystals
17.00-17.30	Valeriy Arbuzov (ITMO University, Russia) On Dual Role of Copper in Phosphate Glasses for Active Elements of High-Peak-Power High-Energy Amplifiers of Radiation
17.30-18.00	Georges Boulon (Claude Bernard/Lyon University, France) Distribution of Yb ³⁺ ions in transparent ceramics analyzed by optical spectroscopy and TEM-EDX techniques
18.30-20.00	Welcome Party

Session 2 (Session chairs: S. Feofilov, V. Arbutov)

9.00-09.30	Vladimir Hizhnyakov (University of Tartu, Estonia) Advanced theory of zero-phonon lines
09.30-10.00	Jeremie Teysier (Universite de Geneve, Switzerland) Lattice coupling stabilizes spin orbital order in tetragonal Sr_2VO_4
10.00-10.30	Paul van Loosdrecht (University of Cologne, Germany) Ultrafast 4f magnetism in EuO
10.30-11.00	Coffee break

Session 3 (Session chairs: S. Nikitin, V. Arbutov)

11.00-11.30	Alexander Moskvina (Ural Federal University, Ekaterinburg, Russia) DFT, L(S)DA, LDA+U, LDA+DMFT..., whether we do approach to a proper description of optical response for strongly correlated systems?
11.30-11.50	<u>Yu. Orlovskii</u> , A. Vanetsev, I. Romanishkin, E. Samsonova, K. Keevend, K. Pukhov, K. Kaldvee, L. Puust, I. Sildos, A. Ryabova, V. Loschenov Novel Materials and Methods for Cancer Theranaustics
11.50-12.10	<u>M. Eremin</u> , R. Fatykhova, J. Deisenhofer Low-lying Energy States in FeCr_2S_4

12.10-12.30	M. Sukhachev, E. Tumayev, K. Avadov The energy level splitting of the impurity 3d ¹ -ion in the semiconductor matrix
12.30-13.30	Poster Session-1
13.30-15.30	Lunch

Session 4 (Session chairs: A. Pimenov, O. Dymshits)

15.30-16.00	Marina Popova (Institute of spectroscopy RAS, Russia) Antiferromagnetic dichroism in a complex multi-sublattice magneto-electric CuB ₂ O ₄
16.00-16.30	Roman Pisarev (Ioffe Institute, Russia) Photoluminescence spectroscopy of phase transitions in a magneto-electric antiferromagnet CuB ₂ O ₄
16.30-17.00	Evgeniy Dianov (Fiber Optics Research Center, Russian Academy of Sciences, Russia) Bi-doped optical fibers: a new promising active medium for near IR lasers
17.00-17.20	L. Fomicheva, A. Kornienko, E. Dunina Theoretical Study of Cubic Elpasolites and the Prediction of their Optical Properties
17.20-17.40	Coffee break

Session 5 (Session chairs: M. Doroshenko, O. Dymshits)

17.40-18.00	I. Kolesnikov, A. Povolotskiy, D. Tolstikova, A. Manshina, M. Mikhailov
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	Site-selective photoluminescence properties of Eu^{3+} -doped Y_2O_3 nanocrystalline powders
18.00-18.20	<u>O. Lipina</u> , Ya. Baklanova, L. Maksimova, L. Surat, A. Tyutyunnik, I. Leonidov, T. Denisova, V. Zubkov Infrared luminescence of $\text{CaLa}_{2-x}\text{Nd}_x\text{Ge}_3\text{O}_{10}$: Er^{3+} , Ho^{3+} germanates and $\text{Li}_7\text{La}_{3-x}\text{Nd}_x\text{Hf}_2\text{O}_{12}$: Er^{3+} , Ho^{3+} hafnates
18.20-18.40	<u>E. Bodunov</u> , V. Danilov, A. Panfutova, A.L. Simões Gamboa Stretched exponential luminescence decay of CdSe/ZnS quantum dots in colloidal solutions
18.40-19.00	<u>A.K. Soni</u> , V.K. Rai Optical temperature sensing in doped phosphor by fluorescence intensity ratio technique

November 11, Wednesday

Session 6 (Session chairs: V. Aseev, A. Grabtchikov)

9.00-9.30	Renata Reisfeld (The Hebrew University of Jerusalem, Israel) Recent methods for intensifying Luminescence of Rare Earth in Condensed Phase
9.30-10.00	Sergey Nikitin (Kazan Federal University, Russia) Site-selective optical spectroscopy and EPR of rare earth impurities in SrY ₂ O ₄ single crystals
10.00-10.30	Anshel Gorokhovskiy (City University of New York, USA) Optical saturation in polarized micro-luminescence of optical centers in cubic crystals
10.30-10.50	Coffee break

Session 7 (Session chairs: V. Aseev, A. Grabtchikov)

10.50-11.20	Andrei Pimenov (Technische Universität Wien, Austria) Optical activity and non-reciprocal effects in multiferroics
11.20-11.50	Valeriy Golubev (Ioffe Institute, Russia) Mesoporous SiO ₂ particles filled with Gd ₂ O ₃ (Eu ³⁺): fabrication, fluorescent properties and prospective medical applications

11.50-12.10	<p>V. Gudkov, N. Averkiev, I. Bersuker, S. Zherlitsyn, S. Yasin, I. Zhevstovskikh, M. Sarychev, K. Baryshnikov, A. Monakhov, Yu.V. Korostelin</p> <p>Investigation of the Jahn-Teller Effect in CdSe: Cr²⁺ Crystal by Ultrasonic Spectroscopy</p>
12.10-12.30	<p>R. Kubrin, T. Graule</p> <p>Modelling of the luminescent properties of nanophosphor coatings with different porosity</p>
12.30-13.30	Poster Session-2
13.30-15.30	Lunch

November 12, Thursday

Session 8 (Session chairs: N. Nikonorov)

9.00–9.30	Valerii Zapasskii (<i>Saint-Petersburg State University, Russia</i>) Advances in Optical Detection of Magnetization
9.30–10.00	Bernard Barbara (Institut Néel, France) Two new quantum effects: coherence of solitons in spin-chains and Stoner–Wohlfarth spin-reversal
10.00–10.30	Mike Reid (University of Canterbury, New Zealand) Modelling of energy levels in low-symmetry quantum-information candidate materials
10.30–10.50	Coffee break

Session 9 (Session chairs: N. Nikonorov, V. Aseev)

10.50–11.10	<u>A. Grabtchikov</u> , I. Khodasevich, A. Kornienko, E. Dunina Nonlinear Optical Effects of Rare Earth Ions with Trace Concentration in Raman Media
11.10–11.30	<u>V. Kalinov</u> , A. Voitovich, A. Mudryi, V. Pavlovskii, L. Runets, I. Svitsiankou Electron-phonon interaction characteristics of near-surface layer radiation color centers in lithium fluoride
11.30–11.50	<u>A. Petrov</u> , D. Jalas, P. Dyachenko, M. Eich Spectral properties of disordered systems with short- and long-range order

11.50-12.10	<p><u>M. Khodasevich</u>, Y. Varaksa, G. Sinitsyn, A. Yasukevich, M. Demesh, V. Aseev</p> <p>Determination of Stark structure of Yb³⁺ energy levels in Y₃Al₅O₁₂ and CaF₂ using principal component analysis</p>
12.10-12.30	<p><u>V. Tarasov</u>, N. Dolovarov, E. Zharikov</p> <p>Manifestation of the Hanle Effect in the Submillimeter EPR Spectroscopy of Thulium Impurity Ions in Synthetic Forsterite</p>
12.30-12.50	<p><u>N. Skoptsov</u>, O. Dymshits, P. Loiko, A. Malyarevich, K. Yumashev, A. Zhilin, I. Alekseeva</p> <p>Preparation and Optical Properties of Cobalt-Doped Magnesium-Aluminum-Gallium Silicate Glass Ceramics for Effective Q-switch Saturable Absorber</p>
12.50-13.10	<p><u>S. Klimin</u>, M. Popova</p> <p>Optical spectroscopy of phonons and magnons in multiferroic RFe₃(BO₃)₄: phase transitions, spin-phonon and electron-phonon</p>
13.10-13.30	<p><u>M. Doroshenko</u>, O. Alimov, A. Papashvili, K. Martynova, A. Konyushkin, A. Nakladov, V. Osiko</p> <p>Formation of New Tm³⁺ Tetragonal Symmetry Optical Centers in CaF₂ Hot-Formed Laser Ceramics</p>
13.30-15.30	Lunch

Session 10 (Session chairs: A. Baranov)

15.30-15.50	<p><u>M. Guzik</u>, E. Tomaszewicz, Y. Guyot, J. Legendziewicz, G. Boulon</p> <p>Nd³⁺, Eu³⁺ and Yb³⁺ Ions as Structural Probes in the Scheelite-Type Cadmium Molybdate with Vacancies</p>
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15.50-16.10	<u>G. Malashkevich</u> , V. Kouhar, I. Khodasevich, A. Sukhodola, V. Sigaev, N. Golubev, M. Ziyatdinova, E. Pestryakov Luminescent and laser properties of Yb-containing huntite-like glasses
16.10-16.30	<u>A. Kornienko</u> , E. Dunina, L. Fomicheva Problem of the Description of Oscillator Strengths of Laser Materials Activated by Eu^{3+} Ions
16.30-16.50	<u>V. Chernyshev</u> , A. Nikiforov, V. Petrov, A. Serdcev Structure and Lattice Dynamics of Crystals with Rare Earth Ions: Ab initio Calculations
16.50-17.10	<u>A. Nizamutdinov</u> , I. Farukhshin, V. Semashko, S. Korableva Color Centers Transient Absorption and Ultra-short Pulse Lasing from $\text{LiLu}_{0.7}\text{Y}_{0.3}\text{F}_4:\text{Ce}^{3+}$ Active Medium
17.10-17.30	Coffee break

Session 11 (Session chairs: A. Baranov)

17.30-17.50	<u>R. Mikhaylovskiy</u> , T. Huisman, R. Subkhangulov ¹ , R. Pisarev, A. Zvezdin, Th. Rasing, A. Kimel Sub-picosecond Magnetism and Magneto-Optics of Rare-Earth Ions in Oxides
17.50-18.10	<u>L. Puntus</u> , I. Pekareva, I. Fedyanin, K. Lyssenko The Influence of Non-Covalent Interactions on the Optical Properties of Complexes of Rare Earth Ions with Aromatic Ligands
18.10-18.30	<u>E. Radzhabov</u> Radiolysis of LaF_3 doped with rare-earth impurities

18.30-18.50

N. Romanov, D. Tolmachev, A. Gurin, Yu. Uspenskaya,
H. Asatryan, A. Badalyan, P. Baranov, H. Wiczorek,
C. Ronda

Spin-dependent processes in garnet crystals doped with
cerium

Session 12 (Session chairs: A. Angervaks)

9.00-9.30	<p>Nikolay Rosanov (Vavilov State Optical Institute, University ITMO, Ioffe Physico-Technical Institute, Russia)</p> <p>Parametric excitation of electromagnetic field and dynamical Casimir effect</p>
9.30-10.00	<p>Konstantin Pukhov (A.M. Prokhorov General Physics Institute of the Russian Academy of Sciences, Russia)</p> <p>Radiative properties of emitters placed near and inside core-shell nanoparticles</p>
10.00-10.20	<p><u>K. Gerasimov</u>, S. Korableva, B. Malkin, M. Minnegaliev, S. Moiseev</p> <p>High-resolution Magneto-optical Spectroscopy of ${}^7\text{LiYF}_4: {}^{167}\text{Er}^{3+}$, ${}^{166}\text{Er}^{3+}$ and Analysis of Hyperfine Structure of ${}^4\text{I}_{15/2} \rightarrow {}^4\text{I}_{9/2}$ Transitions</p>
10.20-10.50	<p>Coffee break</p>

Session 13 (Session chairs: V. Arbuzov)

10.50-11.10	<p><u>V. Gorieva</u>, V. Semashko, S. Korableva, M. Marisov, V. Pavlov</p> <p>Optical Gain on Up-conversionally Excited 5d - 4f Ce^{3+} Transitions in $\text{LiY}_{0.3}\text{Lu}_{0.7}\text{F}_4: \text{Ce}^{3+}, \text{Pr}^{3+}$ Mixed Crystal</p>
11.10-11.30	<p><u>O. Adiguzel</u></p> <p>Phase Transformation and Crystallography in Shape Memory Alloys</p>

11.30-11.50	<u>T. Maksimova</u> , Yu. Kitaev, A. Krylov Phase transitions in ferroelastic $K_3Na(CrO_4)_2$: vibrational spectroscopy and theoretical study
11.50-12.10	<u>Y. Sgibnev</u> , N. Nikonorov, A. Ignatiev White phosphors based on silicate glass with silver nanoclusters formed by ion exchange
12.10-12.30	<u>L. Shtrom</u> , V. Danilov, A. Khrebtov, Y. Samsonenko, P. Werner The effect of foreign gases on the photoluminescence exit of quantum-dimensional composite system
12.30-12.50	<u>M. Pudovkin</u> , P. Zelenihin, A. Krashennicova, A. Nizamutdinov, S. Korableva, V. Semashko Light induced toxicity of rare-earth doped trifluoride crystalline nanoparticles
12.50-13.10	<u>I. Demichev</u> , A. Sidorov Spectral properties of copper and silver ion-exchanged silicate glass
13.10-13.30	Closing

November 10 – Poster Session 1

1. Zh. Lipatova, E. Kolobkova, N. Nikonorov **Luminescent properties of fluorophosphate glasses doped with cadmium selenide quantum dots**
2. A. Visheratina, A. Orlova, V. Maslov, A. Baranov, A. Fedorov **Energy transfer in conjugates based on ZnS:Mn²⁺ quantum dots and chlorin e6**
3. E. Dobretsova, E. Borovikova, S. Aksenov, D. Deyneko **Structural and luminescent properties of huntite-like gallium borates**
4. N. Glushkov **About excitation spatial localization into bulk crystal activated by transition and rear-earth ions**
5. L. Mironov, E. Sveshnikova, V. Ermolaev, P. Parfenov **Energy Transfer from a Singlet Ligand Level to Lanthanide Ions in Their Diketonate Complexes**
6. A. Babkina, P. Shirshnev, T. Kiprushkina, V. Tsekhomsky, N. Nikonorov **Spectral Properties Of Bimorphic Cuprous Chloride Nanocrystals In Different Vitreous Matrices**
7. V. Boltrushko, V. Krasnenko, V. Hizhnyakov **Vibronic interaction in graphene/benzene bound structures**
8. I. Gracheva, D. Zverev, A. Rodionov, V. Trepakov, P. Syrnikov, R. Yusupov **EPR study of the photoinduced centers in KTaO₃ and KTa_{0.988}Nb_{0.012}O₃ crystals**
9. K. Zhuravlev, V. Kudryashova, V. Tsaryuk **Tuning the triplet states of β -diketonates with and without oligomethylene chain to promote the excitation energy transfer to Tb³⁺ and Eu³⁺ ions**
10. L. Nicoara, M. Stef **Dielectric Relaxation in YbF₃ doped BaF₂ Crystals**
11. M. Falin, V. Latypov, S.V. Petrov **Electron paramagnetic resonance study of Yb³⁺ in hexagonal perovskite RbMgF₃ crystal**
12. V. Latypov, M. Falin, S. Korableva **Electron Paramagnetic Resonance of Ce³⁺ Ions in KZnF₃ Single Crystal**

13. K. Pae, V. Hizhnyakov **Time evolution of optical centers with Jahn-Teller effect in excited state - contribution of phonons**
14. A. Shestakov, I. Fazlizhanov, I. Yatsyk, M. Ibragimova, V. Shustov, R. Eremina **Investigation of HgTe:Ag by magnetic resonance method**
15. I. Leonidov, Y. Baklanova, L. Maksimova, A. Tyutyunnik, L. Akashev, E. Vovkotrub, T. Denisova, V. Zubkov **Structure-luminescence relationships in Li₇La₃Hf₂O₁₂:Eu³⁺**
16. E. Polisadova, D. Valiev, H. Othman **Europium ion luminescence kinetics in phosphate glasses of various composition at photo- and e-beam excitation**
17. V. Petrov, I. Leonidov, E. Konstantinova, A. Ishchenko, V. Chernyshev, A. Nikiiforov **Electronic structure of Ca₂Ge₇O₁₆:Dy³⁺, a new afterglow phosphor**
18. O. Goriev, V. Semashko, B. Kazakov, A. Kozjurov, S. Korableva **Upconversion fluorescence peculiarities associated with excitation power density variable by laser power and by Z-scan technique**
19. S. Klimin, M. Kashchenko, K. Zakharov, E. Kuznetsova, P. Berdonosov, A. Vasiliev, **Optical spectroscopy and thermodynamic properties of Cu₃Yb(SeO₃)₂O₂Cl**
20. Sh. Mizitov, D. Pan'kin, M. Colas, J. Cornette, V. Zolotarev **Confocal Raman research of crystalline nucleus formed at the initial stages of crystallization of quartz glasses**
21. A. Petrov, Yu. Artem'ev, A. Petrov **DFT Modeling of Electronic Structure and Optical Spectra of Iron Doped Anatase, Rutile, and Brookite TiO₂**
22. V. Churmanov, V. Sokolov, V. Pustovarov, N. Gruzdev, N. Mironova-Ulmane **Spectroscopy of Charge Transfer States in Mg_{1-x}Ni_xO**
23. N. Rakhimov, A. Lyubimov, A. Nizamutdinov, V. Semashko **Light-induced periodic structures and their characteristics in crystals CaF₂-LuF₃, activated by Ce³⁺ and Yb³⁺ ions**

24. [A. Shavelev](#), A. Nizamutdinov, M. Marisov, V. Semashko **Spectroscopic Properties of UV Active Media $Ce^{3+}:LiCa_{1-x}Sr_xAlF_6$**
25. [A. Skvortsov](#), E. Mokhov, S. Nagalyuk, N. Poletaev, V. Zelenin, Yu. Zhilyaev **Study of absorption spectra of Er^{3+} ions in AlN crystals**
26. [D. Valiev](#), E. Polisadova, V. Vaganov **Effect of co-activators on the spectral and decay kinetics of luminescence scintillating glasses doped by Tb^{3+} ions**
27. [A. Badalyan](#), . V. Azamat, A. Dejneka, J. Lančok, L. Jastrabik **EPR and spin-lattice relaxation in non-Kramers doublet of $LiF: Ni^{2+}-V_{Li}$**
28. [A. Potapov](#), V. Vazhenin, A. Fokin, I. Gilmutdinov, I. Muhamedshin **Fe^{3+} and Gd^{3+} paramagnetic centers in manganese-doped lanthanum gallate**
29. [M. Stolyarchuk](#), A. Sidorov **Electronic structure and optical properties of silver atoms and dimers on point defects in sodium silicate glasses: a first-principles study**
30. [A. Mester](#), E. Flegontova, M. Zamoryanskaya **The study of the cathodoluminescence excitation processes of the rare-earth ions on the example of yttrium-aluminium garnet activated by terbium**
31. [V. Lukanin](#), A. Karasik **Nonlinear Two-Photon Interband Absorption Spectroscopy of Tungstate and Molybdate Crystals**
32. [V. Tarasov](#), .V. Mingalieva, K. Subbotin, R. Zaripov, E. Zharikov **Multifrequency EPR spectroscopy of erbium impurity ions in synthetic forsterite**
33. [A. Angervaks](#), A. Shcheulin, A. Veniaminov, V. Zakharov, P. Fedorov, A. Ryskin **Spontaneous inhomogeneity of color centers concentration in holographic planes formed in CaF_2 crystal**
34. [S. Klimin](#), P.H.M. van Loosdrecht **Raman spectroscopy of $PrFe_3(BO_3)_4$**

November 11 – Poster Session 2

1. G. Shakurov, S. Migachev **High-frequency EPR spectroscopy of Cr²⁺ and Cr⁴⁺ ions in ruby**
2. T. Volkova, M. Borik, E. Lomonova, V. Myzina, P. Ryabochkina, N. Sidorova, N. Tabachkova, A. Chabushkin **Optical spectroscopy of rare-earth ions (Nd³⁺, Eu³⁺, Er³⁺, Yb³⁺) in crystals based on dioxide zirconia**
3. H. Asatryan, A. Potapov, Yu. Uspenskaya, V. Vazhenin, A. Petrosyan, A. Fokin **Paramagnetic Eu²⁺ Centers in Yttrium Aluminum Garnet**
4. R. Pyshev, E. Kolobkova **Effect of europium ions on the formation of Ag-nanoparticles in fluorophosphate glasses**
5. L. Shtrom, V. Agekian, N. Filosofov, A. Serov, G. Karczewski **Mechanism of temperature quenching of Mn²⁺ intracenter luminescence in manganese based dilute magnetic semiconductors**
6. E. Kolobkova, N. Nikonorov **Effect of The Silver on the Growth of PbSe Quantum Dots in Fluorine Phosphate Glasses**
7. N. Gusakova, M.P. Demesh, A. S. Yasukevich, N.V. Kuleshov, S. Grigoriev, I. Khodasevich, A. Pavlyuk **Spectroscopic properties of Tm:NaBi(MoO₄)₂ laser crystal**
8. M. Khodasevich, Y. Varaksa, G. Sinitsyn, A. Yasukevich, M. Demesh, V. Aseev **Green upconversion fluorescence of Er-doped fluorophosphate glasses for temperature measurement**
9. S. Klimin, B. Mavrin, N. Novikova **IR-reflection spectroscopy and ab-initio study of phonon and electronic properties of LiCaAlF₆**
10. A. Bibik, V. Aseev, E. Kolobkova, N. Nikonorov **Spectral and luminescence properties fluorophosphate and fluorosilicate nanoglassceramics doped with erbium**
11. V. Dubrovin, A. Ignatiev, A. Sidorov **Spectral-luminescent properties of silver molecular clusters in photo-thermo-refractive glasses**

12. M. Demesh, N. Gusakova, A. Yasukevich, N. Kuleshov, A. Shekhovtsov, M.B.Kosmyna², P.Mateychenko, B. Nazarenko **Cross sections and branching ratios of Nd³⁺ ions in binary calcium orthovanadate crystals**
13. A. Serdcey, V.A. Chernyshev **Impurity centers Tm²⁺ and Eu²⁺ in SrCl₂ and MeF₂ (Me = Ca, Sr, Ba): ab initio calculation**
14. E. Baibekov, M. Gafurov¹, D. Zverev, I. Kurkin, B. Barbara **Observation of coherent spin dynamics in gadolinium-doped CaWO₄ crystal**
15. A. Skvortsov, Z. Potůček, N. Poletaev, P. Syrnikov, Z. Bryknar, A. Dejneka, L. Jastrabik, V. Trepakov **Li-impurity effect in optical spectra of KTaO₃:Er³⁺ crystals**
16. S. Andronenko, .K. Misra, S. Srinivasa Rao, A. Punnoose **An Co²⁺ EPR study of two types of Zn_{1-x}Co_xO nanoparticles prepared by chemical hydrolysis in diethylene glycol and denaturated alcohol**
17. R. Nuryev, E. Kolobkova, Ba Minh Dinh, N. Nikonorov **Formation of Nanostructured Copper Film on the Fluorophosphate Glass**
18. A. Mikheev, B. Kazakov **Energy Transfer Upconversion by Stimulated Emission**
19. A. Pshenova, D. Klyukin, V. Dubrovin, A. Ignatiev, N. Nikonorov, T. Shakhverdov, A. Sidorov, A. Tsyppkin **Influence of halide shell on luminescence of silver nanoparticles in silicate glass**
20. E. Bodunov, M.N. Berberan-Santos **Kinetics of the Concentration Depolarization of Luminescence and Penetration Depth of Molecules in a Porous Medium**
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