

## FM&NT-2008 PROGRAMME

**Tuesday, April 1**

**Registration  
Welcome Party**

16:00-20:00

19:00-20:00

### FM&NT-2008

**Wednesday, April 2**

**Registration  
Opening, Welcome**

8:30-9:00

9:00-9:15

### Introductory Session

**Chair:** A.Sternberg

1	P.Zilgalvis	RESPONSIBLE RESEARCH IN NANOTECHNOLOGIES AND NANOSCIENCES	<b>INV-1</b>	9:15-9:35
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**Wednesday, April 2**

### Nanostructuring: Theory & Modelling I

**Chair:** N.E.Christensen

1	L.Kantorovich	MANIPULATION OF COVALENTLY BOUND MOLECULES WITH STM AND AFM	<b>INV-2</b>	9:35-9:55
2	<u>E.Kotomin</u> , J.Mastrikov, Y.Zhukovskii, S.Piskunov, J.Maier	FIRST-PRINCIPLES MODELLING OF PEROVSKITE SURFACE REACTIVITY	<b>INV-3</b>	9:55-10:15
3	<u>R.Evarestov</u> , A.Bandura, E.Blokhin	SURFACE MODELLING ON HEAVY ATOM CRYSTALLINE COMPOUNDS: HfO <sub>2</sub> AND UO <sub>2</sub> FLUORITE STRUCTURES	<b>INV-4</b>	10:15-10:35
4	K.M.Neyman	DENSITY FUNCTIONAL MODELING OF NANOMATERIALS: BEYOND THE APPROACH OF IDEAL SURFACES IN CATALYSIS	<b>INV-5</b>	10:35-10:55

### Coffee Break

10:55-11:15

**Wednesday, April 2**

### Nanostructuring: Theory & Modelling II

**Chair:** A.Kuzmin

1	A.Malygin	DESIGNING OF FUNCTIONAL MATERIALS BY THE MOLECULAR LAYERING NANOTECHNOLOGY	<b>INV-6</b>	11:15-11:35
2	E.Klotins	POLARIZATION: DEVELOPMENTS IN COMPUTATIONAL STUDIES	<b>INV-7</b>	11:35-11:55
3	<u>N.E.Christensen</u> , I.Gorczyca, A.Svane, R.Laskowski	ELECTRONIC AND OPTICAL PROPERTIES OF InN AND AlN	<b>INV-8</b>	11:55-12:15
4	<u>Yu.Zhukovskii</u> , S.Piskunov, B.Berzina, L.Trinkler, S.Bellucci	ATOMIC AND ELECTRONIC STRUCTURE OF SINGLE-WALLED BN NANOTUBES CONTAINING NITROGEN VACANCIES	<b>OR-1</b>	12:15-12:30

### Lunch

12:30-14:00

**Wednesday, April 2****Spectroscopy & Optical Properties I****Chair:** E.Kotomin

1	<u>J.Purans</u> , A.Kuzmin, P.Fornasini, G.Dalba, F.Rocca, S.I.Tiutiunnikov	SYNCHROTRON RADIATION EXAFS STUDIES WITH FEMTOMETER ACCURACY	<b>OR-2</b>	14:00-14:15
2	<u>A.Kuzmin</u> , R.A.Evarestov	QUANTUM MECHANICS – MOLECULAR DYNAMICS APPROACH TO THE INTERPRETATION OF X-RAY ABSORPTION SPECTRA	<b>OR-3</b>	14:15-14:30
3	<u>E.Nõmmiste</u> , V.Kisand, E.Kukk, M.Huttula, A.Calo, S.Osmekhin, S.Aksela, H.Aksela	FRAGMENTATION AND ELECTRONIC DECAY OF VUV-EXCITED GAS PHASE ALKALI HALIDE MOLECULES	<b>OR-4</b>	14:30-14:45
4	<u>V.Trepakov</u> , A.Badalyan, Z.Potucek, M.Makarova, A.Dejneka, L.Jastrabik	OPTICAL SPECTROSCOPY AND EPR INVESTIGATIONS OF SrTiO <sub>3</sub> :Cr NANO- POWDER	<b>OR-5</b>	14:45-15:00
5	<u>L.Grigorjeva</u> , D.Millers, K.Smits, W.Lojkowski, T.Chudoba, J.Fidelus, K.Bienkowski, J.Grabis, C.J.Monty	LUMINESCENCE OF ZnO CERAMICS	<b>OR-6</b>	15:00-15:15
6	<u>K.Smits</u> , D.Millers, L.Grigorjeva, A.Opalinska, W.Lojkowski	THE SITE SELECTIVE LUMINESCENCE OF Eu <sup>3+</sup> IN ZrO <sub>2</sub> NANOCRYSTALS	<b>OR-7</b>	15:15-15:30
7	<u>A.I.Popov</u> , G.J.McIntyre, C.Wilkinson, H.von Seggern	PHOTOSTIMULABLE STORAGE PHOSPHORS AND IMAGE-PLATE DEVELOPMENT FOR NEUTRON IMAGING	<b>OR-8</b>	15:30-15:45

**Coffee Break**

15:45-16:00

**Wednesday, April 2****Spectroscopy & Optical Properties II****Chair:** E.Nõmmiste

1	M.Auzinsh, R.Ferber, <u>F.Gahbauer</u> , A.Jarmola, L.Kalvans	BRIGHT AND DARK MAGNETO-OPTICAL RESONANCES IN ATOMIC CESIUM AT d1 EXCITATION	<b>OR-9</b>	16:00-16:15
2	H.J.Fitting	ATTEMPTS TO MAKE SILICA LUMINESCENT	<b>OR-10</b>	16:15-16:30
3	<u>A.N.Trukhin</u> , J.Teteris, A.Fedotov	PHOTOSENSITIVITY OF SiO <sub>2</sub> -Al AND SiO <sub>2</sub> -Na GLASSES UNDER ArF (193 nm) AND F <sub>2</sub> (157 nm) LASERS	<b>OR-11</b>	16:30-16:45
4	L.Dimitroenco, U.Grube, P.Kulis, G.Marcins, B.Polyakov, M.Springis, <u>I.Tale</u>	EXCITON AND IMPURITY Mg AND Si LUMINESCENCE IN AlGaN ALLOYS	<b>OR-12</b>	16:45-17:00
5	<u>S.Kallip</u> , V.Grozovski, P.Möller, H.Kasuk, E.Lust	IN SITU STM AND IMPEDANCE SPECTROSCOPY OF CAMPHOR, 2,2'- BIPYRIDINE AND THIOUREA BY USING BISMUTH SINGLE CRYSTAL BASAL PLANE ELECTRODE	<b>OR-13</b>	17:00-17:15
6	<u>E.Aleksanyan</u> , V.Harutunyan, R.Kostanyan, E.Feldbach, M.Kirm, P.Liblik, V.Makhov, S.Vielhauer	5d – 4f LUMINESCENCE OF Er <sup>3+</sup> IN YAG:Er <sup>3+</sup>	<b>OR-14</b>	17:15-17:30

**April 2 - 4****Exhibition** "Raith-innovative solutions for  
nanofabrication and semiconductor  
navigation"**Wednesday, April 2****POSTER Session & Cofee**

17:30-20:00

**FM&NT-2008**

**Thursday, April 3**

**Nanostructures: Technologies & Characterization & Application I**

**Chair:** I.Muzikante

1	<u>H.Mimura</u> , Y. Neo, T.Aoki	MICRO FIELD EMITTER TECHNOLOGIES FOR NANOVISION SCIENCE	<b>INV-9</b>	9:00-9:20
2	<u>I.N.Mihailescu</u> , G.Socol, C.Ristoscu, J.Ferreira, L.Escoubas	FUNCTIONAL METAL OXIDE NANOSTRUCTURES OBTAINED BY PULSED LASER TECHNOLOGIES FOR OPTICAL GAS SENSING APPLICATIONS	<b>INV-10</b>	9:20-9:40
3	<u>T.Aoki</u> , T.Sakata, H.Yuichiro, M.Nakagawa, H.Morii, V.A.Gnatyuk, Y.Neo, H.Mimura	FIELD EMITTER DRIVE CdTe RADIATION IMAGER	<b>OR-15</b>	9:40-9:55
4	<u>J.Grabis</u> , D.Jankovica, I.Steins, A.Patmalnieks	PREPARATION OF YAG NANOPARTICLES AND THEIR CHARACTERISTICS	<b>OR-16</b>	9:55-10:10
5	<u>E.Palcevskis</u> , A.Lipe, V.Svinka, R.Svinka	POROUS CERAMICS WITH THE DIFFERING PORE MICROSTRUCTURE – IN THE REGION OF MICRO- AND NANOMETERS	<b>OR-17</b>	10:10-10:25
6	D.Maestre, A.Cremades, <u>J.Piqueras</u>	GROWTH AND CHARACTERIZATION OF INDIUM-TIN-OXIDE NANOPYRAMIDS, NANOISLANDS AND TUBES	<b>OR-18</b>	10:25-10:40
7	Yu.Dekhtyar	PHOTO- AND EXOELECTRON EMISSION TO CHARACTERIZE NANOSTRUCTURES	<b>OR-19</b>	10:40-10:55

**Coffee Break**

10:55-11:15

**Thursday, April 3**

**Nanostructures: Technologies & Characterization & Application II**

**Chair:** D.Erts

1	<u>M.Kirm</u> , V.Denks, J.Aarik, A.Aidla, M.Aints, T.Avarmaa, E.Feldbach, R.Jaaniso, A.Kasikov, M.Kodu, A.Maaroos, H.Mändar, J.Raud, J.S.Choi, M.S.Lee, Yu.T.Matulevich	INVESTIGATION OF NOVEL MATERIALS FOR PROTECTIVE LAYERS OF PLASMA DISPLAY PANELS	<b>OR-20</b>	11:15-11:30
2	D.Hovik	LATEST NEWS ON NANOTECHNOLOGY AND NEW MATERIALS IN NORWAY	<b>OR-21</b>	11:30-11:45
3	<u>Z. Aziz</u> , S.Bentata, R.Djelti	EXISTENCE OF PSEUDO-BANDGAPS IN FIBONACCI $Al_xGa_{1-x}As/GaAs$ SUPERLATTICES	<b>OR-22</b>	11:45-12:00
4	<u>A.Medvid</u> , P.Onufrijevs, K.Lyutovich, M.Oehme, E.Kasper, N.Dmytruk, O.Kondratenko, I.Dmytruk, I.Pundyk	SELF-ASSEMBLY OF NANOHILLS IN $Si_xGe_{1-x}/Si$ HETEROEPITAXIAL STRUCTURE DUE TO Ge REDISTRIBUTION INDUCED BY LASER RADIATION	<b>OR-23</b>	12:00-12:15
5	<u>B.Polyakov</u> , A.Petruhins, J.Butikova, A.Kuzmin, I.Tale	SOME ASPECTS OF PULSED LASER DEPOSITION OF Si NANOCRYSTALLINE FILMS	<b>OR-24</b>	12:15-12:30
6	A.Dindune, Z.Kanepe, J.Ronis, A.Actinsh, T.Salkus, A.Kezionis, E.Kamarauskas, <u>A.F.Orliukas</u>	SYNTHESIS, STRUCTURE AND ELECTRICAL PROPERTIES OF $Li_{3-x}Sc_{2-x-y}Y_yZr_x(PO_4)_3$ ( $x = 0.1; y = 0; 0.1$ ) SOLID ELECTROLYTE CERAMICS	<b>OR-25</b>	12:30-12:45

## EUREKA project "BIONANOCOMPOSIT" meeting I

1	DISCUSSIONS ABOUT COLLABORATION AMONG PROJECT PARTNERS	11:15-12:45
2	INVOLVING OF NEW PROJECT PARTNERS	

**Lunch**

12:45-14:00

**Thursday, April 3**

### Nanostructures: Technologies & Characterization & Application III

**Chair:** L.Grigorjeva

1	N.Mlyuka, G.A.Niklasson, <u>C.G.Granqvist</u>	THERMOCHROMIC VO <sub>2</sub> -BASED FILMS WITH ENHANCED TRANSPARENCY	<b>Inv-11</b>	14:00-14:20
2	V.Pankratov, L.Grigorjeva, L.Shirmane, W.Lojkowski, T.Chudoba	PECULIARITIES OF LUMINESCENCE PROPERTIES OF CERIUM DOPED YAG NANOCRYSTALS	<b>OR-26</b>	14:20-14:35
3	<u>A.V.Nomoev</u> , M.D.Buyantuev, D.Zh.Bazarova, D.Yu.Trufanov, S.P.Bardakhanov, V.I.Lysenko	THE PRODUCING OF NANOPOWDERS AND CERAMIC PREPARATION	<b>OR-27</b>	14:35-14:50
4	<u>J.D.Fidelus</u> , L.Zych, K.Smits, D.Millers, L.Grigorjeva, K.Haberko, W.Lojkowski	ADVANCED NANOPOROUS ZIRCONIA CERAMICS FOR LUMINESCENT OXYGEN SENSORS	<b>OR-28</b>	14:50-15:05
5	<u>J.Andzane</u> , J.Prikulis, J.D.Holmes, D.Mihailovic, D.Erts	OPERATION CONDITIONS OF SEMICONDUCTOR NANOWIRES BASED TWO TERMINAL NANO-ELECTROMECHANICAL ON OFF DEVICES	<b>OR-29</b>	15:05-15:20
6	<u>I.Manika</u> , J.Maniks, K.Schwartz	DIAGNOSTICS OF ION-INDUCED TRACK DAMAGE IN LiF SINGLE CRYSTALS BY DISLOCATION PROBE	<b>OR-30</b>	15:20-15:35

**Coffee Break**

15:35-15:50

**Thursday, April 3**

### Magnetic Materials

**Chair:** V.Zauls

1	V.V.Efimov, E.Efimova, S.I.Tiutiunnikov, A.Kuzmin, V.Sikolenko, I.O.Troyanchuk, E.Welter, R.Clement	THE STUDY OF CRYSTAL STRUCTURE TRANSFORMATIONS AND MAGNETIC PROPERTIES IN COBALTITES	<b>OR-31</b>	15:50-16:05
2	A.Mezulis, <u>L.Tiluga</u>	VISUALIZATION OF OPTICALLY INDUCED GRATINGS OF MAGNETIC NANOPARTICLES	<b>OR-32</b>	16:05-16:20
3	<u>S.Lacis</u> , D.Gosko	DIRECT NUMERICAL SIMULATION OF MOTION OF FERROMAGNETIC PARTICLES IN MAGNETORHEOLOGICAL SUSPENSION	<b>OR-33</b>	16:20-16:35
4	<u>D.Zablockis</u> , V.Frishfelds, E.Blums	NUMERICAL INVESTIGATION OF HEAT TRANSFER IN MAGNETIC NANOCOLLOIDS UNDER INHOMOGENEOUS MAGNETIC FIELD	<b>OR-34</b>	16:35-16:50
5	<u>N.Mironova-Ulmane</u> , A.Kuzmin, M.Grube	MICROSPECTROSCOPY OF MANGANESE OXIDES	<b>OR-35</b>	16:50-17:05

**Thursday, April 3**

**Excursion & Conference Dinner**

17:10-23:00

**FM&NT-2008**

**Friday, April 4**

**Ferroelectrics & Dielectrics**

**Chair:** R.A.Evarestov

1	T.Jungk, A.Hoffmann, E.Soergel	NEW INSIGHTS INTO PIEZORESPONSE FORCES MICROSCOPY	<b>Inv-12</b>	9:00-9:20
2	M.Tyunina, J.Narkilahti, M.Plekh, J.Levoska	SUPERLATTICES OF PEROVSKITE FERROELECTRICS: DESIGN, GROWTH, AND FUNCTIONALITY	<b>Inv-13</b>	9:20-9:40
3	S.Corkovic, Q.Zhang	ENHANCED PYROELECTRIC COEFFICIENT OF ANTIFERROELECTRIC-FERROELECTRIC Bi-LAYER THIN FILMS	<b>OR-36</b>	9:40-9:55
4	L.A.Delimova, D.V.Mashovets, V.S.Yuferev	THE ORIGIN OF PHOTOVOLTAIC EFFECT IN HETEROPHASE FERROELECTRIC M/Pb(ZrTi)O <sub>3</sub> /M STRUCTURE	<b>OR-37</b>	9:55-10:10
5	J.Grigas, E.Talik, V.Lazauskas, Yu.M.Vysochanskii, M.Adamiec, V.Nelkinas	INFLUENCE OF PHASE TRANSITION TO ELECTRONIC STRUCTURE OF FERROELECTRIC Sn <sub>2</sub> P <sub>2</sub> S <sub>6</sub> CRYSTAL	<b>OR-38</b>	10:10-10:25
6	L.Aulika, A.Dejneka, A.Kovalova, V.Zauls, K.Kundzins, A.Fuith	OPTICAL STUDIES OF NaNbO <sub>3</sub> THIN FILMS IN THE WIDE TEMPERATURE RANGE OF 5 – 820 K	<b>OR-39</b>	10:25-10:40
7	J.Banys, S.Greicius, T.Granzow, J.Roedel, R.Zuo	RELAXOR BEHAVIOUR OF NBT-BT CERAMICS AND SINGLE CRYSTALS	<b>OR-40</b>	10:40-10:55

**Coffee Break**

10:55-11:10

**Friday, April 4**

**Organic Materials & Polymers & Biomaterials**

**Chair:** A.Silins

1	M.Rutkis, A.Jurgis, A.Vembris	ROADMAP FOR THE NLO POLYMER MATERIAL DESIGN. ENHANCEMENT OF THE POLAR ORDER STABILITY: ONE MORE REASON TO CHANGE THE BEST CHROMOPHORE PARADIGM	<b>OR-41</b>	11:10-11:25
2	A.Ozols, D.Saharov, V.Kokars, V.Kampars, G.Mezhinskis, A.Maleckis, A.Pludons, M.Rutkis	SPECTROSCOPIC STUDIES OF THE RED LIGHT SURFACE RELIEF GRATING RECORDING IN STILBENE AZOBENZENE DERIVATIVES	<b>OR-42</b>	11:25-11:40
3	I.Muzikante, J.Latvels, E.Fonavs, M.Bouvet	ELECTRICAL PROPERTIES OF DOUBLE LAYER ORGANIC THIN FILMS BASED ON HETEROJUNCTION – FOR DESIGN OF MOLECULAR DIODE	<b>OR-43</b>	11:40-11:55
4	M.G.S.Ferreira, M.L.Zheludkevich, S.K.Poznyak, L.M.Rodrigues, L.F.Dick	LDH-BASED NANOCONTAINERS AS ANTICORROSIVE PIGMENT FOR PROTECTIVE COATINGS	<b>OR-44</b>	11:55-12:10
5	R.L.Sammons, N.Alabdullah, O.Anwar, P.Yong, L.E.Macaskie, Yau Yau Tse	BACTERIAL BIOSYNTHESIS OF CALCIUM-STROMTIUM APATITE BY A SPECIES OF SERRATIA	<b>OR-45</b>	12:10-12:25
6	Dj.Veljović, B.Jokić, E.Palcevskis, A.Dindune, R.Petrović, Dj.Janačković	EFFECT OF GRAIN SIZE ON MICRO - AND NANOINDENTATION TESTS OF THE SINTERED AND HOT PRESSED BIOCERAMICS MATERIALS BASED ON HYDROXYAPATITE	<b>OR-46</b>	12:25-12:40

**Lunch**

12:40-14:00

**Friday, April 4****Materials for Energetics****Chair:** M.Kirm

1	G.Vaivars, S.Naidoo, Q.Ying, V.Linkov	LOW TEMPERATURE QUARTERNARY CATALYST SYNTHESIS USED FOR METHANOL AND HYDROGEN OXIDATION ON MWCNT	<b>OR-47</b>	14:00-14:15
2	L.Khotseng, S.Feng, G.Vaivars	NICKEL NANOSTRUCTURES SYNTHESIZED USING TEMPLATE METHOD	<b>OR-48</b>	14:15-14:30
3	A.Lushchik, C.Lushchik, V.Isakhanyan, T.Kärner, P.Liblik, A.Maaroos, A.Shugai, E.Vasilchenko	CONTRIBUTION OF HOT ELECTRON-HOLE RECOMBINATIONS INTO RADIATION DAMAGE OF WIDE-GAP MATERIALS FOR NUCLEAR ENERGETICS AND OTHER APPLICATIONS	<b>OR-49</b>	14:30-14:45
4	E.Lust, G.Nurk, P.Möller, I.Kivi, K.Tamm, R.Küngas, A.Samussenko, S.Kallip, H.Kurig	SOLID OXIDE FUEL CELLS BASED ON THE NANOPOROUS CATHODES AND ANODES	<b>OR-50</b>	14:45-15:00
5	L.Grinberga, J.Kleperis, E.Rancans	PREPARATION AND PROPERTIES OF NANOCOMPOSITE METALHYDRIDE BATTERY ELECTRODES	<b>OR-51</b>	15:00-15:15

**EUREKA project "BIONANOCOMPOSIT" meeting II**

1	DISCUSSIONS ABOUT COLLABORATION AMONG PROJECT PARTNERS	14:00 -15:15
2	INVOLVING OF NEW PROJECT PARTNERS	

**Coffee Break**

15:15-15:30

**Friday, April 4****Glasses & Nanotubes & Nanowires****Chair:** L.Skuja

1	<u>E.Barthel</u> , D.Dalmas, X.Geng, S.Grachev, R.Jribi, C.Peroz, E.Sondergard	FUNCTIONAL GLASS SURFACES: FROM THIN FILMS TO COMPLEX STRUCTURES	<b>Inv-14</b>	15:30-15:50
2	<u>L.Maksimov</u> , A.Ananev, V.Bogdanov, O.Yanush	NANOSTRUCTURED GLASSES: THEIR PROPERTIES AND APPLICATIONS	<b>OR-52</b>	15:50-16:05
3	<u>K.Ishibashi</u> , S.Moriyama, T.Fuse, Y.Kawano, S.Toyokawa, S.Huang, N.Fukada, T.Yamaguchi	QUANTUM-DOT DEVICES WITH CARBON NANOTUBES AND Si NANOWIRES	<b>Inv-15</b>	16:05-16:25
4	S. Bellucci	CARBON NANOTUBES BASE DEVICES FOR NEXT-GENERATION NANO-INTERCONNECTS, FLAT PANELS, ELECTROMAGNETIC SCREENING	<b>Inv-16</b>	16:25-16:45
5	<u>I.Shorubalko</u> , S.Gustavsson, R.Leturcq, A.Pfund, S.Schoen, K.Ensslin	SELF-ALIGNED CHARGE READ-OUT FOR NANOWIRE QUANTUM DOTS	<b>OR-53</b>	16:45-17:00

**Friday, April 4****Closing Session****Chair:** A.Sternberg

1	U.Karlsson	NEW RESEARCH INFRASTRUCTURES FOR MATERIAL RESEARCH IN SWEDEN AND EUROPE	<b>Inv-17</b>	17:00-17:20
2	A.Sternberg	CLOSING REMARKS		17:20-17:30

**Friday, April 4****Good Bye Coffee**

17:30-18:00

<u>D.Bocharov</u> , Y.Zhukovskii, R.Evarestov, E.Kotomin	ATOMIC AND MOLECULAR OXYGEN ADSORPTION ON THE UN (001) SURFACE	<b>Po-1</b>
<u>V.Alexandrov</u> , R.A.Evarestov, E.A.Kotomin, A.Kuzmin, J.Purans, M.Vracar, R.Merkle, J.Maier	THEORETICAL AND STRUCTURAL STUDIES OF CHARGE ORDERING IN CaFeO <sub>3</sub> AND SrFeO <sub>3</sub>	<b>Po-2</b>
<u>A.Kovalovs</u> , M.Wesolowski, E.Barkanov, S.Gluhihs, E.Skukis	MODAL ANALYSIS OF COMPOSITE PLATE	<b>Po-3</b>
<u>A.I.Popov</u> , G.J.McIntyre, J.Zimmermann, V.Pankratov, C.Wilkinson, H.von Seggern	EVALUATION OF LUMINESCENT PROPERTIES OF NEUTRON IMAGE PLATES	<b>Po-4</b>
<u>A.I.Popov</u> , <u>P.V.Savchyn</u> , V.T.Adamiv, Ya.V.Burak, I.M.Teslyuk	INFLUENCE OF DOPING ON THE LUMINESCENCE PROPERTIES OF THE LITHIUM TETRABORATE SINGLE CRYSTALS	<b>Po-5</b>
<u>V.Pankratov</u> , A.I.Popov, S.Chernov, C.Feldmann	TIME-RESOLVED LUMINESCENCE OF LaPO <sub>4</sub> :Ce,Tb NANOPHOSPHOR	<b>Po-6</b>
<u>S.V.Myagkota</u> , A.S.Pushak, G.B.Stryganyuk, S.S.Novosad, I.P.Pashuk, Ya.Chornodolskyy	SPECTRAL-KINETIC LUMINESCENT CHARACTERISTICS OF CsCa <sub>13</sub> -Na CRYSTALS	<b>Po-7</b>
<u>O.Chikalova-Luzina</u> , T.Matsumoto, M.Kondo, V.Vyatkin	RAMAN CHARACTERISATION OF NANOCRYSTALLINE SILICON FILMS	<b>Po-8</b>
<u>M.Savel</u> , A.Vorobjov, V.Kiisk, T.Tätte, V.Reedo, I.Sildos	LUMINESCENT MICRO - AND NANOSTRUCTURED MATERIALS PREPARED BY SOL-GEL METHOD	<b>Po-9</b>
A.Baimakhanuly, A.Kotlov, I.Kudryavtseva, A.Lushchik, V.Nagirnyi, E.Shablonin, <u>E.Vasilchenko</u>	PECULIARITIES OF RADIATIVE AND NON-RADIATIVE DECAY CHANNELS OF INTRINSIC ELECTRONIC EXCITATIONS IN NaCl	<b>Po-10</b>
<u>P.V.Savchyn</u> , O.T.Antonyak, Z.A.Khapko, G.B.Stryganyuk, A.P.Vaskiv, A.S.Voloshinovskii	LUMINESCENCE PROPERTIES OF Pr <sup>3+</sup> DOPED K <sub>2</sub> LaCl <sub>5</sub> MICROCRYSTALS	<b>Po-11</b>
<u>A.Kalinko</u> , A.Kuzmin	RAMAN AND PHOTOLUMINESCENCE SPECTROSCOPY OF ZINC TUNGSTATE POWDERS	<b>Po-12</b>
<u>A.Kalinko</u> , A.Kuzmin, R.A.Evarestov	AB INITIO STUDY OF THE ELECTRONIC AND ATOMIC STRUCTURE OF THE WOLFRAMITE-TYPE ZnWO <sub>4</sub>	<b>Po-13</b>
<u>P.Nazarovs</u> , A.Kuzmin	TEMPERATURE AND COMPOSITION DEPENDENCE OF RAMAN SCATTERING IN ZNWO <sub>4</sub> -NIWO <sub>4</sub> SYSTEMS	<b>Po-14</b>
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