

GENERAL INFORMATION

NANOMEETING-2009 is a traditional International Conference held each two years in Minsk, Belarus. The Conference has arisen from the Belarusian-French initiative and purposes to bring together scientists and engineers from around the world, who work in the fast-developing areas of nanoscience, nanotechnology, nanostructure based electronics and optoelectronics. The meeting addresses the latest results achieved in fabrication, study and application of nanosize structures. It will be in May 26-29, 2009 at the Belarusian State University of Informatics and Radioelectronics in Minsk.

Registration

The registration fee is 110 EURO. It is paid in cash in EURO or equivalently in Belarusian rubles during the registration. The fee includes a copy of the Conference Proceedings, admission to all sessions, coffee breaks, and the city sightseeing bus tour.

Attendees are checked-in at the Conference Registration Desk in the lobby of the second floor of the Building № 1 (P. Browka Str. 6) of the Belarusian State University of Informatics and Radioelectronics. It is easily reached from the subway station “Akademiya Nauk” or by bus number 100 (see the city map at the back cover of the Program). The registration starts on May 26 (Tuesday) at 8:30.

Meeting Activities

The technical program includes invited talks, oral presentations and poster session. All presentations will be in English in the Conference Hall (Building № 1, room 229) of the Belarusian State University of Informatics and Radioelectronics. Oral presentations should be not longer than 30 min for invited speakers and 15-20 min for others including 3-5 min for questions and short discussion. Audio-visual equipment is available for speakers.

The poster session will take place in the lobby nearby the Conference Hall on Wednesday, May 27. Posters may be prepared in any form and will be displayed on poster boards of 1 m × 1.5 m. All posters should be put up on the boards in the morning May 27. That day authors are requested to be present at their posters starting from 17:30. Informal comments and discussion are encouraged during the session.

On May 26 (Tuesday), the Conference participants are invited to the city sightseeing tour just after finishing of the evening session. Conference Reception is planned to be on May 28 (Thursday).

For further information contact:

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ORGANIZERS

	Ministry of Education of Belarus Belarusian State University of Informatics and Radioelectronics
	Université de la Méditerranée Aix-Marseille II
	Nanyang Technological University
	Professional Radio Systems
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Radioelectronics)
A. A. Leshok (Belarusian State University of Informatics and
Radioelectronics)

GENERAL SCHEDULE

Tuesday May 26, 2009

09:00 – 11:00 PLENARY SESSION
11:00 – 11:30 *Coffee Break*
11:30 – 13:00 PLENARY SESSION
13:00 – 14:30 *Lunch*
14:30 – 15:50 PHYSICS OF NANOSTRUCTURES
15:50 – 16:10 *Coffee Break*
16:10 – 17:50 PHYSICS OF NANOSTRUCTURES
18:00 – 20:00 *City Sightseeing Bus Tour*

Wednesday May 27, 2009

09:00 – 11:00 PHYSICS OF NANOSTRUCTURES
11:10 – 11:30 *Coffee Break*
11:30 – 13:10 PHYSICS OF NANOSTRUCTURES
13:10 – 14:30 *Lunch*
14:30 – 15:50 PHYSICS OF NANOSTRUCTURES
15:50 – 16:10 *Coffee Break*
16:10 – 17:30 PHYSICS OF NANOSTRUCTURES
17:30 – 19:00 **Poster Session**

Thursday May 28, 2009

09:00 – 10:40 CHEMISTRY OF NANOSTRUCTURES
10:40 – 11:00 *Coffee Break*
11:00 – 13:00 CHEMISTRY OF NANOSTRUCTURES
13:00 – 14:00 *Lunch*
14:00 – 15:50 NANOTECHNOLOGY
15:50 – 16:10 *Coffee Break*
16:10 – 17:30 NANOTECHNOLOGY
Conference Reception

Friday May 29, 2009

09:00 – 10:50 NANOSTRUCTURE BASED DEVICES
10:50 – 11:10 *Coffee Break*
11:10 – 12:50 NANOSTRUCTURE BASED DEVICES
12:50 GENERAL DISCUSSION AND CLOSING OF THE CONFERENCE

PROGRAM

Tuesday May 26, 2009

PLENARY SESSION

- 9:00 1. **Welcome to Nanomeeting-2009**
A. M. Rad'kov (Chairman of the National Organizing Committee, Minister of Education of Belarus)
M. P. Batura (Rector of Belarusian State University of Informatics and Radioelectronics)
- 9:30 2. NANOSCOPY: NOVEL CONCEPTS AND APPLICATION TO BIOMEDICINE
invited H. Fuchs
Westfälische Wilhelms-Universität, Münster, Germany
- 10:00 3. LASER TREATMENT OF CARBON FILMS: TOWARDS ELECTRONICS
invited APPLICATION
B. K. Tay, M. Shakerzadeh
Nanyang Technological University, Singapore, Singapore
- 10:30 4. CONCENTRATION PROFILES IN HETEROEPITAXIAL NANOISLANDS
invited D. Digiuni, R. Gatti, F. Uhlik, F. Montalenti
University of Milano-Bicocca, Milan, Italy
- Coffee Break**
- 11:30 5. ODD-FREQUENCY PAIRING IN SUPERCONDUCTING NANOSTRUCTURES
invited A. A. Golubov
University of Twente, Enschede, The Netherlands
- 12:00 6. THE CHEMISTRY OF NANOSIZE DEFECTIVE BREAKDOWN PATH IN
invited ULTRATHIN SiON AND HIGH-K GATE DIELECTRIC MATERIALS
K. L. Pey¹, X. Li¹, R. Rakesh¹, V. L. Lo¹, C. H. Tung², G. Zhang², L. J. Tang²
¹*Nanyang Technological University, Singapore*
²*Institute of Microelectronics, Singapore, Singapore*
- 12:30 7. TOWARD NANOSENSOR TECHNOLOGY: MATERIALS, METHODS AND
invited MECHANISMS
A. Gurlo
Technische Universität Darmstadt, Darmstadt, Germany
- Lunch**
- PHYSICS OF NANOSTRUCTURES**
- 14:30 1. InGaP/GaAs HETEROINTERFACES STUDIED BY CROSS-SECTIONAL
invited SCANNING TUNNELING MICROSCOPY AND THEIR IMPACT ON THE
DEVICE CHARACTERISTICS
S. Nozaki, A. Koizumi, K. Uchida, H. Ono
University of Electro-Communications, Tokyo, Japan
- 15:00 2. ELECTROMODULATION SPECTROSCOPY OF SEMICONDUCTOR
invited NANOSTRUCTURES: III-NITRIDES AND DILUTE NITRIDES
R. Kudrawiec
Wroclaw University of Technology, Wroclaw, Poland

- 15:30 3. STRONG COUPLING OF LIGHT WITH 1D QUANTUM DOT CHAIN: FROM RABI OSCILLATIONS TO RABI WAVES
G. Ya. Slepyan¹, Y. D. Yerchak¹, A. Hoffmann²
¹Belarusian State University, Minsk, Belarus
²Technische Universität Berlin, Berlin, Germany

Coffee Break

- 16:10 4. MORPHOLOGY, STABILITY AND ELECTRONIC PROPERTIES OF RUTILE TiO₂ NANOWIRES
D. B. Migas
Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus
- 16:30 5. INVESTIGATIONS IN THE VIBRATIONAL SPECTRUM OF A CANTOR-LAYERED CHAIN
R. Etienne
St. Anne College, Ettelbruck, Luxemburg
- 16:50 6. COULOMB GAP AND SUPERLINEAR FREQUENCY DEPENDENCE OF RESONANCE HOPPING AC CONDUCTIVITY
M. A. Ormont, I. P. Zvyagin
Moscow State University, Moscow, Russia
- 17:10 7. NANOSIZED BOSONIC STRIPES: MANIFESTATIONS OF THEIR QUANTUM NATURE IN TRANSITION-METAL OXIDES
A. V. Mitin
P.L. Kapitza Institute for Physical Problems RAS, Moscow, Russia
- 17:30 8. SATURABLE ABSORPTION EFFECT IN SINGLE-WALL CARBON NANOTUBES
A. M. Nemilentsau, S. A. Maksimenko
Belarusian State University, Minsk, Belarus

City Sightseeing Bus Tour

Wednesday May 27, 2009

PHYSICS OF NANOSTRUCTURES

- 9:00
invited 1. PROCESSES IN SUPERCONDUCTOR-FERROMAGNET
NANOSTRUCTURES: CURRENT STATUS AND FUTURE PROSPECTS
M. Yu. Kupriyanov
Moscow State University, Moscow, Russia
- 9:30 2. RADIATIVE AND NONRADIATIVE TRANSITIONS OF CARRIERS
CONFINED IN
Si NANOCRYSTALS
I. N. Yassievich, A. S. Moskalenko, A. N. Poddubny, A. A. Prokofiev
A.F. Ioffe Physico-Technical Institute, St. Petersburg, Russia
- 9:50 3. SiGe NANOCRYSTAL FORMATION IN PECVD GROWN SiO_x/Si/Ge/Si/SiO_x
MULTILAYERS
S. Ağan¹, A. Aydinli²
¹*Kırıkkale University, Kırıkkale, Turkey*
²*Bilkent University, Ankara, Turkey*
- 10:10 4. SILICON OVERGROWTH ATOP LOW-DIMENSIONAL Mg₂Si
K. N. Galkin, S. A. Dotsenko
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
- 10:30 5. THE MORPHOLOGY AND OPTICAL PROPERTIES OF Fe, Cr AND Mg
SILICIDE NANOCRYSTALLITES BURIED IN SILICON BY ION
IMPLANTATION, PULSED TREATMENTS AND Si OVERGROWTH
N. G. Galkin¹, K. N. Galkin¹, E. A. Chusovitin¹, S. V. Vavanova¹, A. M. Maslov¹,
D. L. Goroshko¹, V. O. Polyarnyi¹, R. M. Bayazitov², R. I. Batalov², G. D. Ivlev³
¹*Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia*
²*Kazan Physics-Technical Institute RAS, Kazan, Russia*
³*Institute of Physics NASB, Minsk, Belarus*
- 10:50 6. ELECTRIC FIELDS EFFECTS IN THIN FILMS OF CMR MANGANITES
J. Aarts, I. Komissarov
Leiden University, The Netherlands
- Coffee Break**
- 11:30 7. SPECTRAL INVESTIGATIONS OF DYE MODIFIED SILICON OXIDE
NANOSTRUCTURES
H. Graaf, T. Baumgärtel, C. von Borczyskowski
Chemnitz University of Technology, Chemnitz, Germany
- 11:50 8. MEMORY IN BLINKING DYNAMICS OF SILVER NANOPARTICLES
E. P. Petrov, C. Bläul, P. Schwille
Dresden University of Technology, Dresden, Germany
- 12:10 9. EXCITON MIGRATION IN LUMINESCENT MOLECULAR
NANOCLUSTERS
A. Sorokin, R. Grynyov, Y. Malyukin
Institute for Scintillation Materials, NASU, Kharkov, Ukraine
- 12:30 10. TRANSPORT PROPERTIES OF Nb THIN FILMS DEPOSITED ON POROUS
Si SUBSTRATES
M. Trezza¹, C. Cirillo¹, C. Attanasio¹, A. V. Dolbik², S. L. Prischepea²
¹*Università degli Studi di Salerno, Baronissi, Italy*
²*Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus*

- 12:50 11. STRUCTURAL PECULIARITIES OF FCC AND BCC CATALYST PARTICLES AND FILLINGS INSIDE CARBON NANOTUBES (NANOFIBERS) STUDIED BY MEANS OF ELECTRON MICROSCOPY
B. Kulnitskiy, I. Perezhogin, V. Blank
Technological Institute of Superhard and Novel Carbon Materials, Troitsk, Russia

Lunch

PHYSICS OF NANOSTRUCTURES

- 14:30 1. NANOSTRUCTURE OF NITROGEN-IMPLANTED SILICON ANNEALED AT ENHANCED PRESSURE
J. Bak-Misiuk¹, P. Romanowski¹, P. Formanek², A. Misiuk³, M. Prujarczyk³, I. V. Antonova⁴
¹*Institute of Physics PAS, Warsaw, Poland*
²*Dresden Technical University, Dresden, Germany*
³*Institute of Electron Technology, Warsaw, Poland*
⁴*Institute of Semiconductor Physics, SB RAS, Novosibirsk, Russia*
- 14:50 2. MAGNETIC DOMAIN WALL MANIPULATION IN NANOSTRUCTURES OF (Ga,Mn)As
T. Figielski¹, T. Wosinski¹, T. Andrearczyk¹, A. Makosa¹, J. Wrobel¹, J. Sadowski²
¹*Institute of Physics PAS, Warszawa, Poland*
²*Lund University, Lund, Sweden*
- 15:10 3. Co-Cu ALLOYS SYNTHESIZED BY MECHANICAL ALLOYING FROM THE POWDER PRECURSORS WITH EXCESS ENTHALPY
L. A. Kuzovnikova, E. A. Denisova, S. V. Komogortsev, A. D. Balaev, V. K. Mal'tsev, G. N. Bondarenko
Institute of Chemistry and Chemical Technology SB RAS, Krasnoyarsk, Russia
- 15:30 4. THE ROLE OF EXTERNAL FACTORS FOR GIANT MAGNETORESISTANCE PHENOMENON IN THE POLYMER-FERROMAGNETIC SYSTEM
N. V. Vorob'eva, A. N. Lachinov
Institute of Physic of Molecules and Crystals URC RAS, Ufa, Russia

Coffee Break

- 16:10 5. SEM AND XRD STUDY OF COPPER/POROUS SILICON NANOCOMPOSITES
A. Bondarenko, M. Balucani
Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus
- 16:30 6. ENERGY TRANSFER VERSUS CHARGE TRANSFER IN POLYMER-NANOCRYSTAL CONJUGATES
A. Lutich, G. Jiang, F. Stefani, A. Susha, A. Rogach, J. Feldmann
Ludwig-Maximilians-Universität München, Munich, Germany
- 16:50 7. NANOSTRUCTURED SILVER FILMS ON MESO- AND MACROPOROUS SILICON LAYERS AS A SUBSTRATE FOR SURFACE-ENHANCED RAMAN SCATTERING
S. N. Terekhov¹, A. Yu. Panarin¹, K. I. Kholostov², V. P. Bondarenko², P.-Y. Turpin³
¹*B.I. Stepanov Institute of Physics NASB, Minsk, Belarus*
²*Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus*
³*Pierre & Marie Curie University, BioMoCeTi GENOPOLE Campus, EVRY, France*
- 17:10 8. DEVELOPMENT OF THE WET METHODS FOR SYNTHESIS OF MESOPOROUS TITANIUM-SILICATE BASED COMPOSITES
E. A. Trusova¹, V. V. Belousov¹, K. A. Solntsev¹, A. E. Chalykh², V. M. Kogan³
¹*A.A. Baykov Institute of Metallurgy and Material Science RAS, Moscow, Russia*
²*A.N. Frumkin Institute of Physical Chemistry and Electrochemistry RAS, Moscow, Russia*
³*N.D. Zelinsky Institute of Organic Chemistry RAS, Moscow, Russia*

POSTER SESSION

17:30-19:00 at the lobby nearby the Conference Hall

Thursday May 28, 2009

CHEMISTRY OF NANOSTRUCTURES

- 9:00 1. AQUEOUS SYNTHESIS OF ALLOYED CdSeTe NANOCRYSTALS
A. Susha, N. Piven, M. Doeblinger, A. Rogach
Ludwig-Maximilians-Universität München, Munich, Germany
- 9:20 2. DEMONSTRATION OF SHAPE AND SIZE CONTROL OF APPLICATIONS
RELEVANT COLLOIDALLY SYNTHESIZED IV-VI NANOPARTICULATE
TIN(II) SULFIDE
S. G. Hickey¹, C. Waurisch¹, B. Rellinghaus²
¹*TU Dresden, Dresden, Germany*
²*IFW Dresden, Dresden, Germany*
- 9:40 3. COLLOIDAL AQUEOUS SYNTHESIS OF SEMICONDUCTOR Zn_{1-x}Cd_xSe/TGA
NANOCRYSTALS WITH LOW Cd CONTENT
V. Lesnyak¹, A. Plotnikov²
¹*TU Dresden, Dresden, Germany*
²*Helmholtz Center Berlin for Materials and Energy, Berlin, Germany*
- 10:00 4. GELS AND AEROGELS FROM COLLOIDAL NANOCRYSTALS
N. Gaponik¹, A. Wolf¹, R. Marx¹, V. Lesnyak¹, A. Eychmüller¹, K. Schilling²
¹*TU Dresden, Dresden, Germany*
²*Nanolytics - Gesellschaft für Kolloidanalytik mbH, Potsdam, Germany*
- 10:20 5. CRYSTAL STRUCTURE OF LEAD SULFIDE NANOPARTICLES IN THIN FILMS
S. I. Sadovnikov¹, A. A. Rempel¹, A. Magerl²
¹*Institute of Solid State Chemistry, Ural Division RAS, Ekaterinburg, Russia*
²*University of Erlangen-Nuremberg, Erlangen, Germany*
- Coffee Break**
- 11:00 6. TEMPLATE-DIRECTED FORMATION OF POLYCRYSTALLINE MAGNESIUM
OXIDE NANORODS
M. Pashchanka, R. C. Hoffmann, J. J. Schneider
*Eduard-Zintl Institut, Anorganische Chemie Technische Universität Darmstadt,
Darmstadt, Germany*
- 11:20 7. ULTRASONIC EFFECT ON THE MORPHOLOGY AND ACTIVITY OF METAL
NANOPARTICLES
D. Radziuk
Max-Planck Institute of Colloids and Interfaces, Potsdam, Germany
- 11:40 8. IMPREGNATION OF METAL NANOPARTICLES INTO PRE-FORMED CLAY
MATRIX
AT DIFFERENT CONDITIONS OF CAVITATION INTERFACE
V. Belova, H. Möhwald
Max-Planck Institute of Colloids and Interfaces, Potsdam, Germany
- 12:00 9. STABILIZATION OF NANOPARTICLES ON THE SURFACE OF DETONATION
NANODIAMOND
O. V. Popkov¹, G. Yu. Yurkov¹, A. S. Fionov²
¹*IMET RAS, Moscow, Russia*
²*IRE RAS, Moscow, Russia*
- 12:20 10. DFT CALCULATIONS OF Au₈ LUMINESCENCE SPECTRUM
V. Matulis, D. Palagin, O. Ivashkevich
Belarusian State University, Minsk, Belarus

- 12:40 11. EXCLUDED AREA BEHAVIOR UPON COMPRESSION AS A VALUABLE TOOL FOR DETERMINATION OF MICRO- OR NANOPARTICULATE CONTACT ANGLES
D. O. Grigoriev, H. Möhwald
Max-Planck Institute of Colloids and Interfaces, Potsdam, Germany

Lunch

NANOTECHNOLOGY

- 14:00 **invited** 1. NANO-PLASMONICS WITH BIOCONJUGATED NANOPARTICLES
J. Feldmann
Ludwig-Maximilians-Universität München, Germany
- 14:30 **invited** 2. NANOMAGNETIC DOT ARRAYS FABRICATION BASED ON ELECTRON BEAM DRAWING AND ITS SIZE EFFECT
S. Hosaka, H. Sano, Y. Tanaka, M. Shirai, Z. Mohamad, Y. Tanaka, H. Sone, Y. Yin
Gunma University, Kiryu, Japan
- 15:00 **invited** 3. PROBE NANOTECHNOLOGY IN ELECTRONICS AND NANOSYSTEMS
V. K. Nevolin, I. I. Bobrinetskiy
Moscow Institute of Electronic Technology (Technical University), Russia
- 15:30 4. PROTECTIVE COATING FOR THE HYDROGEN STORAGE MATERIALS
T. N. Borodina, D. O. Grigoriev, D. V. Andreeva, D. G. Shchukin
Max-Planck-Institute of Colloids and Interfaces, Potsdam-Golm, Germany
- Coffee Break**
- 16:10 5. THE PREPARATION OF POLYMER HYBRID NANOCOMPOSITES VIA “PHOTOPOLYMERIZATION TYPE II” REACTION
A. Oral, H. Akat
Çanakkale Onsekiz Mart University, Çanakkale-TURKEY, Ege University, İzmir-TURKEY
- 16:30 6. LIGHT-CONTROLLABLE COATINGS FOR CORROSION PROTECTION
E. V. Skorb¹, D. V. Sviridov¹, D. G. Shchukin²
¹*Belarusian State University, Minsk, Belarus*
²*Max-Planck Institute of Colloids and Interfaces, Potsdam, Germany*
- 16:50 7. LINEARLY POLARIZED PHOTOLUMINESCENCE FROM GaN QUANTUM DOTS EMBEDDED IN AlN MATRIX
K. S. Zhuravlev¹, I. A. Aleksandrov¹, P. O. Holtz²
¹*Institute of Semiconductor Physics, Novosibirsk, Russia*
²*Linköping University, Linköping, Sweden*
- 17:10 8. NANOARRAY OF BIOMOLECULES WITH A NANOIMPRINTED INERT HYDROGELS FOR DEVELOPING NANOBIOSENSOR
T. Kawai, B. K. Lee
Osaka University, Osaka, Japan

Conference Reception

Friday May 29, 2009

NANOSTRUCTURE BASED DEVICES

- 9:00
invited 1. INTERDISCIPLINARY USE OF POROUS ALUMINA MEMBRANES
M. Hanbücken
Centre Interdisciplinaire de Nanoscience de Marseille, Marseille, France
- 9:30 2. SOME PHYSICAL LIMITS FOR MINIATURIZATION OF ELECTRONIC DEVICES
W. Nawrocki
Poznan University of Technology, Poznan, Poland
- 9:50 3. NANO-LED WITH BROAD BAND OF MODULATION
I. Protsenko¹, K. Krotova²
¹*Lebedev Physical Institute, Moscow, Russia; Advanced Energy Technologies LTD, Moscow, Russia*
²*Moscow Engineering Physics Institute, Moscow, Russia*
- 10:10 4. VERTICAL TYPE OF ORGANIC TRANSISTOR BASED ON POLY(DIPHENYLENEPHTHALIDE)
A. R. Yusupov¹, R. B. Salikhov¹, A. N. Lachinov², R. G. Rakhmeyer²
¹*Bashkir State Pedagogical University, Ufa, Russia*
²*Institute of Physics of Molecules and Crystals URC RAS, Ufa, Russia*
- 10:30 5. EFFICIENCY ENHANCEMENT OF ETA-CELLS FABRICATED BY SILAR DEPOSITION
S. A. Gavrilov¹, A. V. Zheleznyakova¹, A. A. Dronov¹, T. Dittrich²
¹*Moscow Institute of Electronic Technology, Moscow, Russia*
²*Hahn-Meitner-Institute, Berlin, Germany*
- Coffee Break**
- 11:10 6. FABRICATION OF NANOCRYSTAL LEDS BY LAYER-BY-LAYER DEPOSITION
T. Otto¹, P. Mundra¹, M. Schelter¹, N. Gaponik¹, A. Eychmüller¹, C. Bertoni², D. E. Gallardo², S. Dunn²
¹*TU Dresden, Dresden, Germany*
²*Cranfield University, United Kingdom*
- 11:30 7. GENERATING FUNCTIONALITY ON THE NANOMETER AND SUBNANOMETER SCALE IN POLYMERS FOR SENSING IN REAL-LIFE ENVIRONMENTS
P. A. Lieberzeit, S. Yaqub, A. Rehman, N. Iqbal, F. L. Dickert
University of Vienna, Vienna, Austria
- 11:50 8. SEMICONDUCTOR NANOCRYSTALS FOR PHOTOVOLTAICS
A. Rogach
Ludwig-Maximilians-Universität München, Munich, Germany
- 12:10 9. POROUS ANODISING OF ALUMINIUM FILMS IN THE MENISCAL REGION
S. Lazarouk, D. Sasinovich
Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus
- 12:30 10. QUANTUM DETECTOR OF NOISE BASED ON SUPERCONDUCTOR NANOSTRUCTURES
V. L. Gurtovoi, A. I. Ilin, A. V. Nikulov, V. A. Tulin
Institute of Microelectronics Technology RAS, Chernogolovka, Russia
- 12:50 **GENERAL DISCUSSION AND CLOSING OF THE CONFERENCE**

POSTERS

1. ORDERED ARRAYS OF III/V NANOWIRES BY CATALYST FREE EPITAXY
D. Grützmacher
Forschungszentrum Jülich GmbH, Jülich, Germany
2. SPIN PROPERTIES OF NANODIAMONDS WITH NV⁻-CENTERS
V. A. Pushkarchuk¹, A. B. Filonov¹, V. E. Borisenko¹, A. P. Nizovtsev², S. Ya. Kilin²,
S. A. Kuten³
¹*Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus*
²*B.I. Stepanov Institute of Physics NASB, Minsk, Belarus*
³*Belarusian State University, Minsk, Belarus*
3. ATOMIC AND SPIN STRUCTURE OF SINGLE NV⁻-CENTERS NEAR NANODIAMOND SURFACE
V. A. Pushkarchuk¹, A. B. Filonov¹, A. P. Nizovtsev², S. Ya. Kilin², A. L. Pushkarchuk², S. A. Kuten³
¹*Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus*
²*B.I. Stepanov Institute of Physics NASB, Minsk, Belarus*
³*Belarusian State University, Minsk, Belarus*
4. PHONON-ASSISTED TUNNELING THEORIES APPLIED TO ELECTRONIC CONDUCTION IN NANOWIRES OF INORGANIC COMPOUNDS
P. Pipinys, A. Rimeika, R. Sereika
Vilnius Pedagogical University, Vilnius, Lithuania
5. RAMAN SCATTERING IN ION-SYNTHESIZED SILICON NANOCRYSTALS NON-UNIFORMLY DISTRIBUTED IN SiO₂ AND Al₂O₃
A. I. Belov, A. N. Mikhaylov, A. V. Nezhdanov, Yu. V. Zamotaeva, D. I. Tetelbaum
University of Nizhny Novgorod, Nizhny Novgorod, Russia
6. STRUCTURAL INSTABILITY OF ANNEALED a-Si/a-Ge NANOSTRUCTURES
C. Frigeri¹, L. Nasi¹, M. Serényi², A. Csik³, Z. Erdélyi⁴, D. L. Beke⁴
¹*CNR-IMEM Institute, Parma, Italy*
²*MTA-MFA Institute, Budapest, Hungary*
³*Institute of Nuclear Research of HAS, Debrecen, Hungary*
⁴*University of Debrecen, Debrecen, Hungary*
7. ENHANCED SLOWING DOWN OF ELECTROMAGNETIC WAVES IN MULTI-WALL CARBON NANOTUBES
K. Batrakov, P. Kuzhir, S. Maksimenko
Belarusian State University, Minsk, Belarus
8. ELECTRIC FIELD EFFECTS ON OPTICAL PROPERTIES OF SEMICONDUCTOR NANORODS
L. I. Gurinovich¹, A. A. Lutich¹, A. P. Stupak¹, S. Ya. Prislopskii¹, M. V. Artemyev²,
E. K. Rusakov², H. V. Demir³
¹*B.I. Stepanov Institute of Physics NASB, Minsk, Belarus*
²*Belarusian State University, Minsk, Belarus*
³*Bilkent University, Ankara, Turkey*
9. FORMATION OF THE PbS QUANTUM DOTS IN BORON-SILICATE GLASS MATRIX
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