

Saturday, 20th June, 2009

9:20 -- 9:30 **Jacek Szczytko** – School opening address

INVITED LECTURES

9:30 – 12:30 **Wojciech Knap** (Montpellier)
The Physics of Transistors, Plasmons, and THz Emission

15:00 – 18:00 **Andrew Ramsay** (Sheffield)
The optical control of single spins in quantum dots

19:30 **Barbecue** (on the terrace of the ‘Geovita’ hotel)

Sunday, 21st June, 2009

INVITED LECTURES

9:30 – 12:30 **Robin Nicholas** (Oxford)
Physics of carbon compounds – graphene and carbon nanotubes

15:00 – 18:00 **Rafał Dunin-Borkowski** (Lyngby)
Advanced electron micro- and nano-scscopy

20:00 – 21:00 **Concert** – chamber music performed by young artists,
laureates of international music competitions:

Bartosz Głowacki (accordion)
Mateusz Konopelski (violin)
Aleksandra Lelek (cello)

21:00 **Welcoming glass of wine**

Monday, 22nd June, 2009

8:50 -- 9:00 **Jacek A. Majewski – Conference opening address**

INVITED TALKS

9:00 – 10:00 **Moty Heiblum** (Rehovot)
Entangled electrons in the solid state: quantum interference and controlled dephasing

10:00 – 10:10 Break

10:10 – 11:10 **Victor Klimov** (Los Alamos)
Highly luminescent multiexcitons through suppressed Auger recombination in "Giant" nanocrystal quantum dots

11:10 – 11:40 Coffee break

11:40 – 12:40 **Jan Gaj** (Warszawa)
Spin-related spectroscopy of CdTe-based quantum dots

12:40 – 12:50 Break

12:50 – 13:50 **Michael Hilgendorff** (Berlin)
Cobalt-doped ZnO nanorods fabricated by a simple wet-chemical route in alcoholic solution

CONTRIBUTED TALKS

18:50 – 19:10 **M. Syperek**, W. Rudno-Rudziński, G. Sęk, K. Ryczko, J. Andrzejewski, J. Misiewicz, E. S. Semenova, A. Lemaitre, and A. Ramdane
Time-resolved photoluminescence of a coupled quantum well - quantum dots system: inelastic electron-electron scattering as a main mechanism of tunneling process

19:10 – 19:30 **Ł. Cywiński**, W. M. Witzel, V.V. Dobrovitski, and S. Das Sarma
Electron spin dephasing due to hyperfine-mediated interactions in the nuclear bath

19:30 – 19:50 **T. Kazimierzuk**, A. Golnik, M. Goryca, P. Wojnar, J. A. Gaj, P. Kossacki
Influence of anisotropic electron-hole exchange on higher excited states of CdTe/ZnTe quantum dots

19:50 – 20:00 Break

20:00 – 20:20 **M. R. Poniedziałek** and B. Szafran
Violation of Onsager asymmetry in single-electron transport through a cavity coupled to a charged quantum ring

20:20 – 20:40 **B. Witek**, A. Wysmołek, M. Potemski, and V. Thiery-Mieg
Flow of indirect excitons in type II GaAs/AlAs bilayer

20:40 – 22:40 **MONDAY POSTER SESSION**

Tuesday, 23rd June, 2009

INVITED TALKS

- 9:00 – 10:00** **Alois Krost** (Magdeburg)
GaN-on-Si and p-type ZnO: a status report
- 10:00 – 10:10 Break
- 10:10 – 11:10** **Alberta Bonanni** (Linz)
Controlling the aggregation of magnetic cations in semiconductors
- 11:10 – 11:40 Coffee Break
- 11:40 – 12:40** **Maciek Sawicki** (Warszawa)
Controlling magnetism in metal-insulator-semiconductor structures of diluted ferromagnetic semiconductors
- 12:40 – 12:50 Break
- 12:50 – 13:50** **Fred Schedin** (Manchester)
Graphene Update

CONTRIBUTED TALKS

- 18:50 – 19:10** **J. M. Schneider**, M. Orlita, M. Potemski, and D. K. Maude
Low temperature magneto-transport in graphite interpreted using the Slonczewski–Weiss–McClure band structure calculations
- 19:10 – 19:30** **K. Grodecki**, A. Drabińska, R. Bożek, A. Wymolek, K.P. Korona, W. Strupiński, J. Borysiuk, R. Stepniewski, and J.M. Baranowski
Optical absorption and Raman scattering studies of few-layer epitaxial grapheme grown on 4H-SiC substrates
- 19:30 – 19:50** **A.A. Avetisyan**, B. Partoens, and F. M. Peeters
Electric Field Induced Band Gaps in Graphene Multilayers
- 19:50 – 20:00 Break
- 20:00 – 20:20** **H. Przybylińska**, R.T. Lechner, H. Malissa, M. Havlíček, K. Świątek, G. Springholz, W. Jantsch, and G. Bauer
Ferromagnetic resonance studies of $Ge_{1-x}Mn_xTe$ epitaxial layers
- 20:20 – 20:40** T. Wosiński, **T. Andrearczyk**, A. Mąkosa, T. Figielski, J. Wróbel, and J. Sadowski
Bistability of (Ga,Mn)As Ferromagnetic Nanostructures Due to the Domain Walls Switching
- 20:40 – 22:40** **TUESDAY POSTER SESSION**

Wednesday, 24th June, 2009

SYMPOSIUM "GROWTH FOR DEVICES"

INVITED TALKS

- 9:00 – 9:30** **Raphaël Butté** (Lausanne)
Polariton lasing and polariton condensation phenomena in III-nitride based microcavities
- 9:30 – 10:00** **Rachel A. Oliver** (Cambridge)
InGaN quantum dot single photon sources: crystal growth challenges
- 10:00 – 10:10 Break
- 10:10 – 10:40** **Bogusław Boratyński** (Wrocław)
AlGaIn/GaN Heterostructure FET - processing and parameters evaluation
- 10:40 – 11:10** **Kamil Kosiel** (Warsaw, ITE)
Molecular Beam Epitaxy growth for quantum cascade lasers
- 11:10 – 11:40 Coffee break
- 11:40 – 12:10** **Janusz Sadowski** (Lund & Warsaw)
Molecular Beam Epitaxy Growth of III-V Semiconductor Nanowires on Silicon
- 12:10 – 12:40** **Wojciech Zaleszczyk** (Warsaw, IFPAN)
ZnTe- and ZnO-based nanowires: building blocks of nanosensors
- 12:40 – 12:50 Break
- 12:50 -- 13:20** **Christian Tessarek** (Bremen)
InGaN Quantum Dots as Active Material in Light Emitting Structures
- 13:20 – 13:50** **Marcin Sarzyński** (Warsaw, Unipress,)
Recent Advances and Challenges in the Blue Laser Diodes Technology
- 15:45 – 16:15** **Robert Dwiliński** (Warsaw, Ammono Sp. z o. o)
Properties of truly bulk ammonothermal GaN substrates for homoepitaxy
- 16:15 – 16:45** **Jacek Baranowski** (Warsaw, UW & ITME)
Epitaxial Graphene – Technology and Perspectives
- 16:45 – 17:15 Coffee break
- 17:15 – 18:30** **Rump session** moderated by **Detlef Hommel** (Bremen)
- 20:00** **Conference Banquet**

Thursday, 25th June, 2009

INVITED TALKS

- 9:00 – 10:00** **Elżbieta Guziewicz** (Warszawa)
ZnO by ALD - advantages of the material grown at low temperature
- 10:00 – 10:10 Break
- 10:10 – 11:10** **Paweł Machnikowski** (Wrocław)
Collective luminescence and phonon-induced processes in double quantum dots
- 11:10 – 11:40 Coffee Break
- 11:40 – 12:40** **Amalia Patane** (Nottingham)
RELIEF-effect in III-N-V alloys
- 12:40 – 12:50 Break
- 12:50 – 13:50** **Valery Zwiller** (Delft)
Quantum optics with nanowires and quantum dots

CONTRIBUTED TALKS

- 18:50 – 19:10** L.H. Dmowski, **M. Baj**, T. Suski, J. Przybytek, R. Czernecki, S.B. Che, A. Yoshikawa, H. Lu, W.J. Schaff, D. Muto, and Y. Nanishi
Interplay between surface inversion layer and Mg-acceptor doped interior in InN:Mg
- 19:10 – 19:30** **K. Holc**, P. Perlin, R. Czernecki, M. Leszczyński, T. Suski, U. Schwarz, and H. Braun
Coupling of optical modes in gallium nitride based, multi-emitter laser diode structures
- 19:30 – 19:50** **W. Pacuski**, C. Kruse, S. Figge, K. Frank, M. Schowalter, A. Rosenauer, T. Jakubczyk, J. A. Gaj, M. Stoica, M. Gartner, and D. Hommel
ZnTe-based photonic structures: distributed Bragg reflectors, monolithic microcavities containing CdTe QDs, and micropillars
- 19:50 – 20:00 Break
- 20:00 – 20:20** **M. Galicka**, M. Buwała, R. Buczko, P. Kacman
Modeling of Mn-doped III-V Nanowires
- 20:20 – 20:40** **P. Podemski**, G. Sęk, K. Ryczko, J. Andrzejewski, J. Misiewicz, S. Hein, S. Höfling, and A. Forchel
Polarization properties of InGaAs/InP columnar quantum dash structures
- 20:40 – 22:40** **THURSDAY POSTER SESSION**

Friday, 26th June, 2009

DAY OF SPINTRONICS

INVITED TALKS

- 9:00 – 10:00** **Lars Schreiber** (Delft)
Control of single and coupled electron spins in semiconductor quantum dots
- 10:00 – 10:10 Break
- 10:10 – 11:10** **Ian Appelbaum** (College Park)
Injection, transport and control of spins in Silicon
- 11:10 – 11:40 Coffee Break
- 11:40 – 12:40** **Michael Pioro-Ladriere** (Sherbrooke)
Manipulating single electron spins with micro-magnets
- 12:40 – 12:50** **Jacek A. Majewski** – Closing address

MONDAY POSTER SESSION (MoP1 ... MoP43)

1. Tadeusz Figielski,
Effect of the Electron Spin upon Ballistic Transport through a Waveguide of Varying Cross-section
2. G. Grabecki, K. A. Kolwas, J. Wróbel, M. Aleszkiewicz, G. Springholz, and G. Bauer
Quantum transport in long PbTe wires: indications of quantum dot formation
3. A. A. Avetisyan, A. V. Ghazaryan, A. P. Djotyan, and K. Mouloupoulos
Magnetoexcitons in Semiconductor Quantum Rings with Complicated (Kane's) Dispersion Law
4. M. Gryglas, B. Jouault, J. Tworzydło, W. Strupiński, K. P. Korona, and J. M. Baranowski
Transport Properties of Disordered Graphene Layers
5. G. Möller and A. Wójs
Fractional quantum Hall states with non-Abelian statistics
6. J. Jadczyk, L. Bryja, P. Plochocka, A. Wojs, J. Misiewicz, and M. Potemski
Combined exciton-cyclotron resonance in photoluminescence of a two dimensional hole gas
7. M. Marchewka, E. M. Sheregii, I. Tralle, J. Cebulski, A. Marcelli, M. Piccinini, M. Von Ortenberg, and S. Hansel
Optical and Magneto-optical Detection of Symmetric and Anti-symmetric States in Double Quantum Wells at Room Temperature
8. K. Nogajewski, K. Karpierz, J. Łusakowski, J. Kossut, and M. Grynberg
Magneto spectroscopy of the CdTe/CdMnTe Multiple Quantum Wells in the Crossed Electric and Weak Magnetic Fields
9. K. Haas, T. Kazimierzczuk, P. Wojnar, A. Golnik, J. A. Gaj, and P. Kossacki
Influence of local electric fields on photoluminescence of an individual CdTe/ZnTe Quantum Dot
10. M. Zielinski, M. Korkusinski, E. Kadanstev, and P. Hawrylak
Atomistic Calculation of Fine Structure Splitting of Multiexciton Complexes in Self-Assembled Quantum Dots
11. T. Jakubczyk, T. Kazimierzczuk, A. Golnik, W. Pacuski, C. Kruse, D. Hommel, Ł. Kłopotowski, T. Wojtowicz, and J. A. Gaj
Optical study of ZnTe-based 2D and 0D Photonic Structures containing CdTe/ZnTe Quantum Dots
12. M. Koperski, T. Kazimierzczuk, M. Goryca, A. Golnik, P. Kossacki, P. Wojnar, and J. A. Gaj
Rate equation model description of charge state dynamics in CdTe/ZnTe quantum dots in pico-seconds time scale

13. K. Roszak and P. Machnikowski
Phonon-induced pure dephasing of two-electron spin states in vertical quantum dot molecules
14. J. Papierska, M. Goryca, P. Kossacki, and P. Wojnar
Temperature of a Single Mn Atom in a CdTe Quantum Dot
15. A. Werpachowska and T. Dietl
Effect of inversion asymmetry on anomalous Hall effect in ferromagnetic (Ga,Mn)As
16. P. M. Gorley, O. M. Mysliuk, V. K. Dugaev, P. P. Horley, and J. Barnaś
The Influence of Electric Field on the Optical Spin Polarization of Electrons in a Diluted Magnetic Semiconductor
17. M. Czapkiewicz, J. Wróbel, K. Fronc, M. Aleszkiewicz, T. Wojciechowski, and T. Dietl
Integration of metallic micromagnets on semiconductor mesa nanostructures
18. W. Stefanowicz, M. Sawicki, C. Śliwa, P. Aleshkevych, T. Dietl, A. Maziewski, M. Doeppe, U. Wurstbauer, W. Wegscheider, and D. Weiss
Magnetic anisotropy of (Ga,Mn)As film on (311) GaAs substrate
19. M. A. Pietrzyk, B. J. Kowalski, B. A. Orłowski, W. Knoff, T. Story, W. Dobrowolski, V. E. Slynko, E. I. Slynko, and R. L. Johnson
Valence band structure of bulk and epitaxial GeTe-based diluted magnetic semiconductors – a photoemission study
20. V. Kolkovsky, M. Wiater, G. Karczewski, Ch. Betthausen, A. Vogl, D. Weiss, and T. Wojtowicz
High electron mobility Cd(1-x)Mn(x)Te/Cd(1-y)Mg(y)Te quantum well Structures
21. J. Sadowski, P. Dłużewski, T. Wojciechowski, K. Gas, W. Zaleszczyk, W. Szuszkiewicz, J.-F. Morhange, T. Kasama, and R. E. Dunin-Borkowski
Catalyst-Free MBE Growth of Mn-doped GaAs Nanowires on Silicon Substrates
22. I. Gorczyca, T. Suski, S. P. Łepkowski, N. E. Christensen, and A. Svane
Strong Influence of Indium Segregation on InAlN Band Structure
23. M. Siekacz, A. Khatchapuridze, J. Smalc-Koziorowska, J. Goss, G. Staszczak, B. Łuczniak, P. Perlin, T. Suski, and C. Skierbiszewski
Optically pumped InAlGaN lasers at 474 nm by Plasma Assisted MBE
24. R. Jakiela, E. Dumiszewska, P. Caban, A. Tuross, and A. Barcz
Oxygen diffusion into GaN from oxygen implanted GaN or Al₂O₃
25. K. Surowiecka, A. Wyszomolek, R. Stepniewski, K. Pakula, R. Bozek, and J. Baranowski
Time Evolution of the Microluminescence Energy of GaN/AlGaN Quantum Dots
26. S. Kret, F. Ivaldi, J. Dąbrowski, G. Maciejewski, and M. Leszczynski
Transmission electron microscopy and numerical modeling for the investigation of elements composition in InGaN/AlGaN/GaN multilayer

27. Le Van Khoi, A. Avdonin, R. Szymczak, M. Potemski, and R.R. Gałazka
Electroluminescence and Positive Magnetoresistance Near the Curie-Weiss Temperature in the $Zn_{1-x}Mn_xTe$ Light Emitting Devices
28. P. Vitta, Z. Vaitonis, and A. Žukauskas
Thermal Characterization of Light-Emitting Diodes
29. M. A. Borysiewicz, M.-A. di Forte-Poisson, M. Ekielski, E. Kamińska, A. Piotrowska, R. Jakiela, E. Dynowska, and T. Wojciechowski
 Ti_3SiC_2 thin films as Schottky barriers for III-N HEMT applications
30. A. Korbecka, K. Zberecki, M. Maziarz, L. Adamowicz, and J. A. Majewski
Modeling of infra-red detectors based on InAs/GaSb superlattices
31. M. Maziarz, W. Trzeciakowski, and J. A. Majewski
Modeling of pressure and temperature tuning of quantum-well laser diodes
32. A. Kamińska, A. Suchocki, and A. Kozanecki
High-pressure spectroscopy of ytterbium doped InP
33. S. Trushkin, I. T. Sorokina, E. Sorokin, M. G. Brik, S. Biernacki, L.V. Khoi, A. Kamińska, and A. Suchocki
Ligand influence on Jahn-Teller Effect and Spin-Orbit Interaction Studied in II-VI Semiconductors Doped with Cr^{2+} Ions
34. J. Kaczkowski, O. Volnianska, P. Bogusławski, A. Jezierski, and E. Kamińska
Calculated doping properties of Ag acceptor in ZnO
35. O. Volnianska and P. Boguslawski
Theory of electronic structure of cation vacancies in wide band-gap nitrides and oxides: effects of spin polarization
36. S. Nowak, Y. Kayser, L.T. Baczewski, D. Banaś, W. Cao, J.-Cl. Dousse, J. Hoszowska, M. Pajek, A. Petrouchik, J. Szlachetko and A. Wawro
Investigation of the Morphology of Surface Nanostructures by Means of the Synchrotron Radiation Based High-Resolution GEXRF Technique
37. D. I. Bletskan, V. V. Frolova, and K. E. Glukhov
The Influence of Polytypism on the Band Structure of $SnS_2(Se_2)$
38. K. Grodecki, A. Wysmołek, R. Stępniewski, J. M. Baranowski, W. Hofman, E. Tymicki, and K. Graszka
Raman piezospectroscopy of phonons in bulk 6H-SiC
39. E.M. Sheregii, J. Cebulski, A. Marcelli, and M. Piccinini
Reverse resonance electron phonon interaction in the HgCdTe and HgZnTe Alloys
40. E. Kamińska, I. Pasternak, A. Piotrowska, E. Dynowska, A. Barcz, E. Przeździecka, T. Wojciechowski, E. Łusakowska, and J. Kossut
Enhancement of p-type conduction in ZnO by dual acceptor doping

41. A. Ievtushenko, G. Lashkarev, V. Lazorenko, V. Khranovskyy, V. Karpyna, L. Kosyachenko, V. Sklyarchuk, O. Sklyarchuk, O. Kutsay, V. Baturin, A. Karpenko, and M. Lunika
Deposition of High Quality ZnO Films for Designing of UV Photodetectors on Their Basis
42. K. P. Korona, M. Kamińska, A. Witowski, D. Wasik, M. Michalska, L. Lipińska, Z. Rogulski, and A. Czerwiński
Phonons in laptop batteries
43. S. Boubanga-Tombet, W. Knap, M. I. Dyakonov, K. Karpierz, J. Łusakowski, and M. Grynberg
High Magnetic Field Effects on Plasma Wave THz Detection in FETs

TUESDAY POSTER SESSION (TuP1 ... TuP48)

1. P. Potasz, A. D. Güçlü, and P. Hawrylak
Electronic shells of Dirac Fermions in graphene quantum rings in a magnetic field
2. D. Sztenkiel and J. Wróbel
Realistic model of multiterminal ballistic nano-junctions
3. M. Birowska, K. Milowska, and J. A. Majewski
Ab initio study of functionalized carbon nanotubes
4. K. A. Kolwas, G. Grabecki, J. Wróbel, K. Kapcia, R. Puźniak, R. Jakiela, E. Janik, M. Aleszkiewicz, T. Dietl, G. Springholz, and G. Bauer
Conductance mechanism through In/PbTe superconductor-semiconductor interface: Andreev reflection and weak links
5. V.P. Makhniy, S.V. Khusnutdinov, and V.V. Gorley
Electrical properties of anisotype ZnO/ZnSe heterojunctions
6. R. Buczko, J. Łusakowski, K.-J. Friedland, R. Hey, and K. Plogg
Non-equilibrium Distribution of Electron Gas in Photoluminescence Experiment on Acceptor δ -doped GaAs/AlGaAs heterostructure
7. K. Masztalerz, M. Orlita, H. Buhmann, Ch. Bruene, A. Astakhova (E. G. Novik), and M. Potemski
Cyclotron Resonance in HgTe/CdTe Quantum Wells
8. A. Ievtushenko, E. Grushko, L. Kosyachenko, V. Sklyarchuk, G. Lashkarev, and X. Mathew
Spectral Distribution of Photoelectric Efficiency of Thin-Film CdS/CdTe Heterostructure
9. D. Płoch, E. M. Sheregii, M. Marchewka, M. Woźny, and G. Tomaka
Magnetophonon Resonance in Double Quantum Wells
10. P. Dziawa, J. Sadowski, E. Łusakowska, P. Dłużewski, W. Domuchowski, B. Taliashvili, L. T. Baczewski, A. Petrouchik, T. Wojciechowski, M. Bukała, M. Galicka, R. Buczko, P. Kacman, and T. Story
Metal-Catalyzed Growth of PbTe Nanowires by MBE Method
11. W. Zaleszczyk, E. Janik, S. Kret, P. Dłużewski, T. Wojciechowski, A. Presz, E. Dynowska, G. Karczewski, and T. Wojtowicz
Radial nanowires based on ZnTe grown by molecular beam epitaxy
12. M. Aleszkiewicz, K. Fronc, W. Zaleszczyk, P. Dziawa, T. Wojtowicz, and G. Karczewski
Magnetic Force Microscopy studies of Zn_{1-x}Co_xO nanowire structures produced by rapid thermal evaporation

13. E. Janik, A. Wachnicka, Ł. Wachnicki, W. Zaleszczyk, A. Presz, S. Kret, P. Dłużewski, E. Guziewicz, M. Godlewski, G. Karczewski, and T. Wojtowicz
ZnO nanowire structures grown by ALD technique on Zn_{1-x}Mn_xTe nanowire templates
14. K. Gas, K. Fronc, P. Dziawa, W. Knoff, T. Wojciechowski, W. Zaleszczyk, A. Baranowska-Korczyn, J. F. Morhange, W. Paszkowicz, D. Elbaum, G. Karczewski, T. Wojtowicz, and W. Szuszkiewicz
Physical properties of ZnCoO tetrapods and nanofibers
15. G. V. Lashkarev, P. V. Demydiuk, G. Yu. Yurkov, A. I. Dmitriev, Y. P. Pyratinskiy, E. I. Slynko, and A. G. Khondozhko
Properties of ZnO:Mn Nanoparticles Immobilized in Polyethylene Matrix
16. Le Van Khoi, A. Avdonin, and R.R. Gałązka
Identification of Excitonic Photoluminescence Bands in Bulk (Zn,Mn)Te and (Cd,Mn)Te Semimagnetic Semiconductors
17. T. Groń, H. Duda, E. Malicka, J. Krok-Kowalski, and A.W. Pacyna
A Step-Like Structure of the Electrical Conductivity of the n-type Cd_xCr_yV_zSe₄ Spinel Semiconductors
18. T. Groń, I. Jendrzewska, H. Duda, P. Zajdel, A.W. Pacyna, and J. Krok-Kowalski
Effect of Cation Substitution on Critical Fields in the n-type Zn_xSn_yCr_zSe₄ Spinel Semiconductors
19. A. Wierzbicka, D. Lübbert, J.Z. Domagała, and Z. R. Żytkiewicz
Microstructure of laterally overgrown epitaxial layers studied by X-Ray Rocking Curve Imaging technique
20. P. M. Gorley, V. V. Brus, S. V. Bilichuk, O. M. Sletov, and I. G. Orletsky
Luminescent and optical properties of the (TiO₂)_{1-x}(CoO)_x thin films
21. S. Kret, A. Szczepańska, M. Zielinski, T. Chassagne, and M. Portail
Misfit accommodation mechanisms at the Si/SiC interface investigated at atomic level by HRTEM
22. S. Chutia and A. K. Bhattacharjee
Semiconductor quantum dots with a single magnetic impurity
23. W. Rudno-Rudziński, K. Ryczko, G. Sęk, M. Syperek, J. Misiewicz, E. M. Pavelescu, C. Gilfert, and J. P. Reithmaier
Influence of tunnelling on optical properties of InGaAs/GaAs quantum dot based tunnel injection structures
24. P. Łach, G. Karczewski, M. Wiater, T. Wojtowicz, A. Kamińska, and A. Suchocki
Influence of high pressure on the luminescence of CdTe and CdMnTe self-assembled quantum dots grown by molecular beam epitaxy

25. P. Kaczmarkiewicz and P. Machnikowski
Effective Hamiltonian approach to second-order confined polarons in quantum dots
26. P. Schillak and G. Czajkowski
Electro-optical properties of cylindrical quantum dots
27. J. Kobak, M. Goryca, P. Kossacki, G. Karczewski, T. Wojtowicz, and J. Gaj
Magnetization dynamics of (Cd,Mn)Te quantum well in pulsed magnetic field
28. A. Avdonin, W. Knoff, and R. R. Gałazka
Magnetic properties of Zn_{1-x}MnTe_{1-y}O_y alloys
29. A. Avdonin, Le Van Khoi, W. Knoff, and R. R. Gałazka
Magnetic properties of (Zn,Mn)Te semimagnetic alloy Co-doped with Chromium
30. A. Kwiatkowski, D. Wasik, J. Sadowski, J. Borysiuk, P. Dłużewski, A. Wiśniewski, and R. Puźniak
Magnetization Dynamics of MnAs Ferromagnetic Nanocrystals Embedded in GaAs Examined by Means of AC Susceptibility Measurements
31. E. Wolska, M. Łukasiewicz, J. D. Fidelus, W. Łojkowski, E. Guziewicz, and M. Godlewski
Optical properties of ZnCoO films and nanopowders
32. W. Knoff, V. Domukhovski, K. Dybko, P. Dziawa, R. Jakiela, E. Łusakowska, A. Reszka, K. Świątek, B. Taliashvili, T. Story, K. Szałowski, and T. Balcerzak
Ferromagnetic transition in Ge_{1-x}MnxTe epitaxial layers
33. M. Łukasiewicz, B. Witkowski, M. Godlewski, E. Guziewicz, M. Sawicki, W. Paszkowicz, E. Łusakowska, R. Jakiela, T. Krajewski, I. A. Kowalik, and B. J. Kowalski
ZnCoO Films by Atomic Layer Deposition – influence of a growth temperature on uniformity of cobalt distribution
34. K. Nogajewski, J. Łusakowski, K. Karpierz, M. Grynberg, E. Kamińska, A. Piotrowska, and Z. Bougrioua
GaN/AlGaN high electron mobility transistors with grid couplers for THz detection
35. K. P. Korona, P. Caban, and W. Strupiński
Transport of photoexcited electron-hole plasma in GaN/AlGaN QW
36. J. Mickevičius, G. Tamulaitis, E. Kuokštis, V. Liulolia, M. S. Shur, J. Yang, and R. Gaska
Influence of built-in electric field and many-body effects on photoluminescence dynamics in AlGaN/AlGaN quantum wells
37. A. Kamińska, A. Kozanecki, E. Alves, M. Boćkowski, and A. Suchocki
Optical properties of ytterbium implanted GaN under hydrostatic pressure

38. M. Ł. Szańkowski, M. Siekacz, A. Feduniewicz-Śmuda, M. Kryśko, J. Domagała, Sz. Grzanka, P. Wolny, B. Łuczniak, and Cz. Skierbiszewski
Indium incorporation mechanism to m-plane and c-plane InGaN grown by plasma assisted molecular beam epitaxy (PAMBE)
39. G. Staszczak, T. Suski, R. Czernecki, G. Targowski, M. Kryśko, G. Nowak, P. Wiśniewski, B. Łuczniak, I. Grzegory, M. Leszczyński, and P. Perlin
Search for the most efficient light emitters based on InGaN quantum wells grown by MOVPE on misoriented GaN substrates
40. L. Teliga, M. Białek, K. Nogajewski, J. Łusakowski, K. Karpierz, M. Grynberg, J. Szczytko, B. J. Pawlak, and T. Hoffman
Temperature Dependence of the Magnetoresistance Mobility in Nanometer Si Metal-Oxide-Semiconductor Field-Effect Transistors
41. Jan Grym, Olga Procházková, Jiří Zavadil, and Karel Žďánský
InGaAsP/InP infrared light emitting diodes prepared by liquid phase epitaxy from rare-earth treated melts
42. M. Białek, K. Nogajewski, K. Haas, L. Teliga, J. Łusakowski, K. Karpierz, M. Grynberg, E. Kamińska, A. Piotrowska, G. Valusis, and K. Kohler
Electron concentration dependence of the cyclotron resonance spectra in GaAs/AlGaAs micrometer high electron mobility transistors
43. P. Dyba, E. Płaczek-Popko, E. Zielony, Z. Gumienny, and J. Szatkowski
Electrical characterization of Schottky Au-CdTe:Ga diodes
44. V. V. Brus, M. I. Ilaschuk, O. A. Parfenyuk, and K. S. Ulyanitsyky
The CdTe optical and photoluminescent properties change due to the Cr doping
45. K. Racka-Dzietko, E. Tymicki, M. Raczkiwicz, K. Graszka, R. Jakięła, M. Kozubal, E. Jurkiewicz-Wegner, A. Brzozowski, K. Kościewicz, R. Diduszko, M. Pawłowski, and J. Krupka
Characterization of SiC Doped with Vanadium
46. T. P. Surkova, V. R. Galakhov, E. Z. Kurmaev, and M. Godlewski
X-ray Spectroscopy Research of Semimagnetic ZnO and Cu₂O-Based Compounds
47. A. A. Avetisyan, Y. L. Hao, A. P. Djotyan, and F. M. Peeters
Shallow Donor States near a Semiconductor-Insulator-Metal Interface
48. S. C. Mauger, M. Bozkurt, P. M. Koenraad, A. D. Giddings, R. Campion, and B. L. Gallagher
(Ga,Mn)As/(Ga,Al)As Multilayer Structures studied by X-STM

THURSDAY POSTER SESSION (ThP1 ... ThP47)

1. P. Parafiniuk and R. Taranko
Spin-dependent transient effects in electron transport in quantum dot systems
2. M. Bek, B. R. Bułka, and J. Wróbel
Linear and non-linear response in T-shape electron waveguides
3. H. Santos, A. Ayuela, W. Jaskólski, M. Pelc, and L. Chico
The Physics Of Carbon Nanotube Interfaces
4. R. Stankiewicz, G. Kowalski, K. Karpierz, and J. Łusakowski
The Influence of Charge Transfer on the Structure of Acceptor type Graphite Intercalation Compound
5. S. P. Agnihotri, H. Boukari, H. Haas, L. Besombes, M. Richard, and H. Mariette
Nanofabrication of telluride: A road to single dot transport study
6. E. Zielony, E. Płaczek-Popko, Z. Gumienny, J. Trzmiel, G. Karczewski, and M. Guziewicz
Valence band offset in CdTe/ZnTe self-organized quantum dots measured by deep level transient spectroscopy
7. S. P. Łepkowski and I. Gorczyca
Pressure dependence of the light emission in zinc-blende InGaAs/GaAs and InGaN/GaN quantum wells : nonlinear elasticity and compositional effects
8. J. Kunc, R. Grill, M. Orlita, C. Faugeras, M. Potemski, G. Karczewski, and T. Wojtowicz
Two-dimensional electron gas in CdTe-based quantum wells
9. K. Majchrowski, W. Paško, and I. Tralle
Photo-galvanic effect in asymmetric quantum wells of different shapes
10. V. I. Ivanov, L. A. Karachevtseva, O. O. Lytvynenko, K. A. Parshyn, and O. J. Stronska
2D Structures of Macroporous Silicon with Nanocoverings: Manufacturing, Functionalities and Using
11. A. Trajnerowicz, A. Golnik, P. Kossacki, W. Bardyszewski, M. Wiater, G. Karczewski, and T. Wojtowicz
Cold and Hot Excitons in CdMnTe/CdMgTe Quantum Wells in Strong Excitation Regime and External Magnetic Field
12. S. Nowak, T. Jakubczyk, M. Goryca, A. Golnik, P. Kossacki, P. Wojnar, and J. A. Gaj
Emission of Self-Assembled CdTe/ZnTe Quantum Dot Samples with Different Cap Thickness
13. G. Michałek and B. R. Bułka
Cross-correlations and Charge Pumping in Shot Noise of Coupled Quantum Dot System

14. P. Kruszewski, L. Dobaczewski, A. Mesli, V. P. Markevich, C. Mitchell, M. Missous, and A. R. Peaker
Photocurrent measurements on the InAs/GaAs quantum dot system
15. A. Musiał, G. Sęk, P. Podemski, J. Misiewicz, A. Löffler, S. Höfling, and A. Forchel
Few particle effects in the photoluminescence of single self-assembled InGaAs/GaAs quantum dashes
16. Ł. Marcinkowski, K. Roszak, and P. Machnikowski
Singlet-triplet dephasing in asymmetric quantum dot molecules
17. M. Goryca, T. Kazimierzczuk, A. Golnik, M. Nawrocki, J. A. Gaj, P. Wojnar, G. Karczewski, and P. Kossacki
Mn Spin Relaxation Mechanisms in Quantum Dots
18. A. Wołoś, Z. Wilamowski, I. Grzegory, M. Boćkowski, W. Jantsch, Cz. Skierbiszewski, and S. Porowski
Problem of Rashba field in bulk GaN and in GaN-based heterostructures
19. J. Kaczkowski and A. Jezierski
DFT+U calculations of transition metal doped III-nitrides
20. A. Korbecka, M. Sawicki, J. A. Majewski, and T. Dietl
Modeling of ferromagnetism in metal-insulator-semiconductor structures of (Ga,Mn)As
21. G.V. Lashkarev, V.I. Sichkovskiy, M.V. Radchenko, P. Aleshkevych, N. Nedelko, A. Slawska-Waniewska, R. Yakiela, and W. Dobrowolski
High Curie Temperature Layered Ferromagnetic InSe:Mn
22. V. I. Sichkovskiy, M.V. Radchenko, G.V. Lashkarev, V.E. Slyn'ko, E.I. Slyn'ko, W. Knoff, V. Domukhovskiy, and T. Story
Studies of Diluted Magnetic Semiconductor $Sn_{1-x-y-z}Ge_xMn_yGd_zTe$
23. S. Gieratowska, A. Wachnicka, M. Łukasiewicz, W. Paszkowicz, E. Łusakowska, E. Guziewicz, and M. Godlewski
High-k oxides (Al_2O_3 and HfO_2) deposited by Atomic Layer Deposition for electronic and spintronics applications
24. I. Jendrzewska, T. Groń, H. Duda, P. Zajdel, A.W. Pacyna, and E. Maciążek
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25. P. Osewski, H. Turski, J. Szczytko, E. Górecka, D. Pociecha, K. Madrak, and A. Twardowski
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26. L. Marona, P. Wiśniewski, M. Leszczyński, P. Prystawko, M. Boćkowski, T. Suski, R. Czernecki, I. Makarowa, and P. Perlin
Surface photochemical reactions as main cause of InGaN laser diodes degradation

27. R. Kudrawiec, M. Latkowska, G. Sęk, J. Misiewicz, J. Ibanez, M. Henini, and M. Hopkinson
Fine structure of the localized emission from GaInNAs layers studied by micro-photoluminescence
28. G. Cywiński, R. Kudrawiec, W. Rzodkiewicz, M. Krysko, E. Litwin-Staszewska, J. Misiewicz, and Cz. Skierbiszewski
Refractive Index for GaInN Heavily Doped with Silicon at IR Wavelengths
29. J. Bartoszek, R. Piotrkowski, J. Higersberger, and J. A. Majewski
Modeling of Nitride Quantum Well Light Emitting Diodes – Effect of Strong Inhomogeneous Electric Fields
30. M. Łopuszyński and J. A. Majewski
Structural properties of ternary and quaternary AlGaInN alloys calculated using valence force field approach
31. T. Słupiński, M. Molas, and J. Papierska
Free Carriers Scattering by Static Lattice Distortions in Metallic GaAs:Te Alloy with a Partial Chemical Order
32. W. Szuszkiewicz, J.-F. Morhange, A. Łusakowski, M. Kanehisa, and Z. Gołacki
Raman Scattering Studies of ZnO Bulk Crystals Containing Co
33. P. Poloczek, R. Kudrawiec, M. Syperek, J. Misiewicz, R.H. Mari, M. Shafi, M. Henini, Y. G. Gobato, S. V. Novikov, J. Ibáñez, M. Schmidbauer, and S. I. Molina
Optical properties of dilute bismides studied by modulation spectroscopy and photoluminescence
34. J. Cebulski, E. M. Sheregii, J. Polit, A. Marcelli, M. Piccinini, A. Kisiel, I. V. Kucherenko, and R. Triboulet
Role of the intrinsic defects in the phonon spectra of the Zn- and Cd-doped HgTe
35. M. Sznajder, D. M. Bercha, P. Potera, A. Khachapuridze, V. V. Panko, and S. A. Bercha
Band Structure and Optical Properties of the Layered Hg₃TeCl₄ Crystal
36. L. Yu. Kharkhalis, V.A. Shenderovskii, M. Sznajder, and D.M. Bercha
Dispersion Law with a Low-energy Nonparabolicity for the Charge Carriers in the In₄Se₃ Crystal and Related New Effects
37. P. D. Marianchuk, D. P. Koziarskyi, and Ivan P. Koziarskyi
Mechanisms of electrons dispersion in crystals (3HgSe)_{1-x}(Al₂Se₃)_x:<Mn> and (3HgS)_{1-x}(Al₂S₃)_x:<Mn>
38. E. Tymicki, K. Racka-Dzietko, K. Graszka, M. Raczkiwicz, T. Łukasiewicz, K. Kościewicz, R. Diduszko, and R. Bożek
Vanadium doping of SiC Crystals grown by PVT Method
39. A. Podhorodecki, G. Zatoryb, J. Misiewicz, F. Gourbilleau, and C. Dufour
Temperature Dependent Emission Quenching For Silicon Nanoclusters

40. T. Radzyński and A. Łusakowski
Ab initio calculations of band structure and elastic properties of PbTe
41. P. Kowalski and P. Machnikowski
Two-pair optical excitations in semiconductor nanocrystals and their impact on the total generation rate under terrestrial illumination
42. H. Duda, E. Malicka, T. Groń, A.W. Pacyna, and J. Kusz
Electrical and Magnetic Characterization of $ZnCr_{2-x}V_xSe_4$ Spinel Semiconductors
43. J. Trzmiel, E. Płaczek-Popko, E. Zielony, and Z. Gumienny
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44. E. Malicka, T. Groń, H. Duda, A.W. Pacyna, and J. Krok-Kowalski
Influence of Temperature on Critical Fields in $Zn_{1-x}Sb_xCr_{2-x}/3Se_4$
45. M. Szot, A. Szczerbakow, K. Dybko, L. Kowalczyk, E. Smajek, M. Bukala, M. Galicka, P. Sankowski, R. Buczko, P. Kacman, V. Domukhovski, E. Łusakowska, P. Dziawa, A. Mycielski, and T. Story
Experimental and theoretical analysis of PbTe-CdTe solid solution grown by physical vapour transport method
46. J. Krok-Kowalski, J. Warczewski, E. Malicka, T. Groń, H. Duda, T. Mydlarz, M. Pawelczyk, A. Pacyna, P. Rduch, and A. Władarz
Influence of substitution of the chromium ions by the nonmagnetic Sb and Al ions on the magnetizing processes in $CuCr_2X_4$ ($X=S, Se$) spinels
47. I. Ulfat, J. Adell, J. Sadowski, L. Ilver, and J. Kanski
Investigation of post growth annealing of (GaMn)As under Sb