

PROGRAM of PLMCN4

Wednesday , June 30

W0	Opening Remarks	Conference Hall	08:50 - 09:15
W1	Microcavities and Photonic Crystals I	Conference Hall	09:15 - 10:45 <i>(chairmen: E.L. Ivchenko)</i>
W1-1	09:15 - 09:45 Microcavities and photonic crystals: a historical perspective on the development of concepts (invited) <u>C. Weisbuch</u> <i>Laboratoire de Physique de la Matière Condensée and Genewave, X'Tec, Ecole Polytechnique, France</i>		
W1-2	09:45 - 10:15 Self-interaction effects in the microcavity parametric oscillator (invited) <u>D. M. Whittaker</u> <i>Dept. of Physics and Astronomy, University of Sheffield, United Kingdom</i>		
W1-3	10:15 - 10:30 Parametric oscillation in semiconductor microcavities : nonlinear and quantum effects <u>J.-Ph. Karr</u> , A. Baas, M. Romanelli, A. Bramati, and E. Giacobino <i>Laboratoire Kastler Brossel, Paris, France</i>		
W1-4	10:30 - 10:45 Continuous wave pump-probe experiment on a planar microcavity: evidence for formation of a parametric stimulated signal at arbitrary k-vectors <u>D. Sanvitto</u> , D. M. Whittaker, M. S. Skolnick, and J. S. Roberts <i>Dept. of Physics, University of Sheffield, United Kingdom</i>		
<u>Coffee Break</u>			10:45 - 11:15
W2	Microcavities and Photonic Crystals II	Conference Hall	11:15 - 12:45 <i>(chairmen: M.C. Skolnick)</i>
W2-1	11:15 - 11:45 New development in electrodynamics and preparation of left-handed materials (invited) <u>A. L. Efros</u> <i>Dept. of Physics, University of Utah</i>		
W2-2	11:45 - 12:15 Waveguide-plasmon polaritons in photonic crystal slabs with metal nanowires (invited) <u>S. G. Tikhodeev</u> , N. A. Gippius, A. Christ, J. Kuhl, and H. Giessen <i>A.M. Prokhorov General Physics Institute, Russia</i>		

W2-3	12:15 - 12:30	Polaritons and nanocavities in photonic crystal slabs <i>D. Gerace, M. Agio, and L. C. Andreani INFM- Dept. di Fisica "A. Volta", Università di Pavia, Italy</i>
W2-4	12:30 - 12:45	Theoretical and experimental studies of optical properties of metal infiltrated opals <i>A. L. Pokrovsky, C. Y. Li, V. Kamaev, Z. V. Vardeny, A. L. Efros, D. A. Kurdyukov, and V. G. Golubev Dept. of Physics, University of Utah, Salt Lake City, USA</i>
<u>Lunch Break</u>		12:45 - 14:15
W3 III-N Nanostructures I	Conference Hall	14:15 - 16:00 (chairmen: B. Monemar)
W3-1	14:15 - 14:45	Temporal and spatial recombination dynamics in nitride-based nanostructures (invited) <i>Y. Kawakami Dept. of Electronic Science and Engineering, Kyoto University, Japan</i>
W3-2	14:45 - 15:15	GaN quantum dot density control by rf-plasma molecular beam epitaxy (invited) <i>J. Brown, F. Wu, P. M. Petroff, and J. S. Speck University of California, Santa Barbara, USA</i>
W3-3	15:15 - 15:30	Investigation of the recombination dynamics in low In-content InGaN MQWs by means of cathodoluminescence and photoluminescence excitation <i>A. Reale, A. Di Carlo, A. Vinattieri, M. Colocci, F. Rossi, N. Armani, C. Ferrari, G. Salviati, L. Lazzarini, and V. Grillo INFM, Dept. Ingegneria Elettronica, Università di Roma Tor Vergata, Italy</i>
W3-4	15:30 - 15:45	Carrier dynamics and recombination in GaN quantum discs embedded in AlGaN nanocolumns <i>M. Zamfirescu, M. Gurioli, A. Vinattieri, J. Ristić, and E. Calleja Dept. of Physics and LENS Università di Firenze, Sesto Fiorentino, Italy</i>
W3-5	15:45 - 16:00	Luminescence from site-controlled InGaN/GaN quantum dots <i>R. W. Martin, P. R. Edwards, R. A. Taylor, J. H. Rice, J. H. Na, J. W. Robinson, I. M. Watson, and C. Liu Dept. of Physics, University of Strathclyde, Glasgow, United Kingdom</i>
<u>Coffee Break</u>		16:00 - 16:30

W4 III-N Microcavities and Quantum Wells Conference Hall 16:30 - 18:15
(chairmen: *E. Calleja*)

- W4-1 16:30 - 17:00
Lattice-matched AlInN/GaN distributed Bragg reflectors for nitride microcavities (invited)
J.-F. Carlin, J. Dorsaz, C. Zellweger, N. Grandjean, and M. Illegems
Institute of Quantum Electronics and Photonics, Swiss Federal Institute of Technology / Ecole polytechnique fédérale, Switzerland
- W4-2 17:00 - 17:15
Advances in the realization of GaN-based microcavities: towards strong coupling at room temperature
F. Semond, F. Natali, D. Byrne, M. Leroux, and J. Massies
CRHEA-CNRS, Valbonne, France
- W4-3 17:15 - 17:30
Observation of cavity polaritons in InGaN quantum well microcavities
T. Tawara, H. Gotoh, T. Akasaka, N. Kobayashi, T. Makimoto, and T. Saitoh
NTT Basic Research Laboratories, NTT Corporation, Kanagawa, Japan
- W4-4 17:30 - 17:45
Strong microcavity effects in InGaN/GaN heterostructures on Si-substrates
J. Christen, C. Hums, A. Hoffmann, Th. Hempel, S. Petzold, A. Dadgar, and A. Krost
Institute of Experimental Physics, Otto-von-Guericke-University, Magdeburg, Germany
- W4-5 17:45 - 18:00
Optical properties of nonpolar GaN/(AlGa)N multiple quantum wells
N. Akopian, G. Bahir, D. Gershoni, M. D. Craven, J. S. Speck, and S. P. DenBaars
Solid State Institute, Technion-Israel Institute of Technology, Haifa, Israel
- W4-6 18:00 - 18:15
Digital alloys: short period superlattices of AlN/AlGaN for ultraviolet device applications
S. A. Nikishin, B. A. Borisov, V. V. Kuryatkov, J. Saxena, G. D. Kipshidze, K. A. Bulashevich, I. A. Zhmakin, S. Yu. Karpov, Yu. N. Makarov, M. Holtz, and H. Temkin
Nano Tech Center / Dept. of Electrical and Computer Engineering, Texas Tech. University, Lubbock, USA

Down Town Excursion and Boat Trip 20:00 - 00:00

Thursday , July 1

T1 Polaritons in Microcavities I Conference Hall 09:00 - 10:30
(chairmen: *A. Kavokin*)

- T1-1 09:00 - 09:30
Nonlinear dynamics of polariton scattering in semiconductor microcavity: bistability vs stimulated scattering (invited)
N. A. Gippius, S. G. Tikhodeev, V. D. Kulakovskii, D. N. Krizhanovskii, A. I. Tartakovskii, and L. V. Keldysh
A.M. Prokhorov General Physics Institute, Russia

T1-2	09:30 - 10:00	Towards evidence of spontaneous polariton condensation in II-VI microcavities (invited) <i>M. Richard, J. Kasprzak, R. André, R. Romestain, and Le Si Dang CEA-CNRS-UJF joint group Nanophysique et Semiconducteurs Laboratoire de Spectrométrie Physique, Université Joseph Fourier – Grenoble, France</i>
T1-3	10:00 - 10:15	Instability effects in cw FWM of cavity polaritons in planar microcavities <i>V. D. Kulakovskii, M. N. Makhonin, D. N. Krizhanovskii, N. A. Gippius, and S. G. Tikhodeev Solid State Physics Institute, Chernogolovka, Russia</i>
T1-4	10:15 - 10:30	Amplification of polariton incoherent emission <i>J. Bloch, B. Sermage, P. Senellart, R. André, and Le Si Dang LPN/CNRS, Marcoussis, France</i>

Coffee Break 10:30 - 11:00

T2 Polaritons in Microcavities II		Conference Hall 11:00 - 12:30 (chairmen: Le Si Dang)
T2-1	11:00 - 11:30	Spin and charge dynamics of polaritons in semiconductor microcavities (invited) <i>J. J. Baumberg University of Southampton, United Kingdom</i>
T2-2	11:30 - 11:45	Linear polarisation inversion: A signature of Coulomb scattering of cavity polaritons with opposite spins <i>K. V. Kavokin, P. Renucci, T. Amand, X. Marie, P. Senellart, J. Bloch, and B. Sermage Ioffe Institute, St.-Petersburg, Russia</i>
T2-3	11:45 - 12:00	Polarization dynamics of microcavity polaritons: Three excitation regimes <i>L. Klopotowski, A. Amo, M. D. Martin, L. Viña, and R. André Dept. Física Materiales, Universidad Autónoma de Madrid, Spain</i>
T2-4	12:00 - 12:15	Polariton magneto-spectroscopy in GaAs/AlGaAs microcavities with modulation doped quantum wells <i>A. Gabbay, B. M. Ashkinadze, E. Cohen, E. Linder, and L. N. Pfeiffer Solid State Institute, Technion-Israel Institute of Technology, Haifa, Israel</i>
T2-5	12:15 - 12:30	Spin dynamics of exciton polaritons in semiconductor microcavities <i>I. Shelykh, K. V. Kavokin, A. V. Kavokin, and G. Malpuech LASMEA / Université Blaise Pascal, Aubière, France</i>

Lunch Break 12:30 - 14:00

T3 Microcavities and Photonic Crystals III Conference Hall 14:00 - 15:30
(chairmen: L. Viña)

- T3-1 14:00 - 14:30
Ultrafast photoinduced shift of cavity modes in semiconductor microcavity under femtosecond excitations (invited)
E. A. Vinogradov
Institute of Spectroscopy of RAS, Troizk, Russia
- T3-2 14:30 - 14:45
Enhanced polariton relaxation by electron- polariton collisions
M. Perrin, J. Bloch, A. Lemaître, and P. Senellart
LPN/CNRS, Marcoussis, France
- T3-3 14:45 - 15:00
Spontaneous coherence buildup in a polariton laser
F. P. Laussy, G. Malpuech, A. Kavokin, and P. Bigenwald
LASMEA / Université Blaise Pascal, Aubière, France
- T3-4 15:00 - 15:15
One-dimensional photonic crystals based on periodic quantum well structures
L. I. Deych, M. V. Erementchouk, A. A. Lisyansky, E. L.. Ivchenko, and M. M. Voronov
Physics Dept., Queens College, City University of New York, USA
- T3-5 15:15 - 15:30
Branch-entangled polariton pairs: planar microcavities versus photonic wires
C. Ciuti
Laboratoire Pierre Aigrain, Ecole Normale Supérieure, Paris, France

Coffee Break 15:30 - 16:00

T4 III-N Nanostructures II Conference Hall 16:00 - 17:45
(chairmen: A. Di Carlo)

- T4-1 16:00 - 16:30
Growth and fabrication of nitride-based UV devices on various substrates (invited)
H. Amano, K. Balakrishnan, M. Iwaya, S. Kamiyama, and I. Akasaki
High-Tech Research Center, 21st Century COE Nanofactory, Meijo University, Nagoya, Japan
- T4-2 16:30 - 17:00
Microstructure and electronic properties of InGaN quantum wells (invited)
F. A. Ponce
Dept. of Physics and Astronomy, Arizona State University, Tempe, USA
- T4-3 17:00 - 17:15
Absorption and Raman scattering processes in InN films and dots
O. Briot, B. Maleyre, S. Ruffenach, C. Pinquier, F. Demangeot, J. Frandon, and
B. Gil
Groupe d'Etudes des Semiconducteurs, Université Montpellier II, France
- T4-4 17:15 - 17:30
Correlation among growth conditions, crystal structures and optical properties of InN
Y. Nanishi, T. Araki, H. Naoi, M. Kurouchi, and T. Yamaguchi
Dept. of Photonics, Ritsumeikan University 1-1-1 Noji-higashi, Kusatsu, Japan

T4-5 17:30 - 17:45

Optical properties of InN with stoichiometry violation and indium clustering

T. V. Shubina, S. V. Ivanov, V. N. Jmerik, M. M. Glazov, A. Vasson, J. Leymarie, A. Kavokin, H. Amano, I. Akasaki, K. S. A. Butcher, Q. Guo, B. Monemar, and P. S. Kop'ev

Ioffe Institute, St.-Petersburg, Russia

T5p Poster Session

Poster Hall 18:00 - 20:00

T5p-1

Exciton relaxation and spin dynamics in $\text{Al}_x\text{Ga}_{1-x}\text{As}$ films

*A. Amo, M. D. Martin, L. Klopotowski, L. Viña, A. I. Toropov, and K. S. Zhuravlev
Dept. Física de Materiales, Universidad Autónoma de Madrid, Spain*

T5p-2

Quantum switching of spatial modes in the 2D-exciton resonance spontaneous emission

*V. V. Ovsyankin, B. V. Stroganov, Yu. K. Dolgikh, S. A. Eliseev, Yu. P. Efimov, V. V. Petrov, and V. S. Zapasskii
Vavilov State Optical Institute, St.-Petersburg, Russia*

T5p-3

Excitonic polaritons in semiconductor solid solutions $\text{Al}_x\text{Ga}_{1-x}\text{As}$

*R. P. Seisyan, V. A. Kosobukin, S. A. Vaganov, M. A. Markosov, T. S. Shamirzaev, K. S. Zhuravlev, A. K. Bakarov, and A. I. Toropov
Ioffe Institute, St.-Petersburg, Russia*

T5p-4

Quantum confinement in thick epitaxial layers. Interference of polariton waves or quantization of the carrier motion?

*E. Ubyivovk, Yu. K. Dolgikh, Yu. P. Efimov, S. A. Eliseev, I. Ya. Gerlovin, I. V. Ignatiev, V. V. Petrov, V. V. Ovsyankin, and I. A. Yugova
Institute of Physics, St.-Petersburg State University, Russia*

T5p-5

Cross-sectional photoelectron spectromicroscopy measurements of quantum dimensional AlGaN/GaN heterostructures: spatially resolved band structure mapping

*A. Barinov, E. Lutsenko, V. Pavlovskii, V. Zubialevich, L. Gregoratti, L. Aballe, G. Yablonskii, M. Kiskinova, B. Schineller, and M. Heuken
Sincrotrone Trieste, Italy*

T5p-6

Thermally detected optical absorption in sophisticated nitride structures

*A. Vasson, T. V. Shubina, and J. Leymarie
LASMEA / Université Blaise Pascal, Aubière, France*

T5p-7

Infrared ellipsometry study of strained hexagonal AlN/GaN superlattices

*V. Darakchieva, P. P. Paskov, M. Schubert, T. Paskova, B. Monemar, H. Amano, and I. Akasaki
IFM, Linköping University, Sweden*

T5p-8

Surface control of light-emitting structures based on III-nitrides

*A. I. Besyul'kin, A. P. Kartashova, A. G. Kolmakov, V. V. Krivolapchuk, W. V. Lundin, M. M. Mezdrogina, A. V. Sakharov, N. M. Schmidt, A. A. Sitnikova, E. E. Zavarin, and R. V. Zolotareva
Ioffe Institute, St.-Petersburg, Russia*

T5p-9

Laser and optical properties of optically pumped blue InGaN/GaN MQW lasers grown on silicon

E. V. Lutsenko, A. V. Danilchyk, V. Z. Zubialevich, V. N. Pavlovskii, A. L. Gurskii, G. P. Yablonskii, Y. Dikme, A. Szymakowski, H. Kalisch, R. H. Jansen, B. Schineller, and M. Heuken

Institute of Physics of National Academy of Sciences, Minsk, Belarus

T5p-10

High-reflectivity $\text{Al}_x\text{Ga}_{1-x}\text{N}$ Bragg reflectors in the ultraviolet spectral region

R. Butte, D. Sanvitto, T. Wang, A. Alyamani, P. J. Parbrook, R. J. Lynch, D. M. Whittaker, and M. S. Skolnick

Dept. of Physics and Astronomy, University of Sheffield, United Kingdom

T5p-11

E-beam pumped resonant periodic gain $\text{GaInP}/\text{AlGaInP}$ VCSEL

V. Yu. Bondarev, V. I. Kozlovsky, A. B. Krysa, J. S. Roberts, and Ya. K. Skasyrsky
P.N. Lebedev Physical Institute, Moscow, Russia

T5p-12

Vertically emitting InAs LEDs and lasers with cavity formed by gold anode and semiconductor/air interface

N. V. Zotova, N. D. Il'inskaya, S. A. Karandashev, *B. A. Matveev*, M. A. Remennyi, and N. M. Stus'

Ioffe Institute, St.-Petersburg, Russia

T5p-13

Low divergence edge-emitting laser with asymmetric waveguide based on one dimensional photonic crystals

M. V. Maximov, Yu. M. Shernyakov, I. I. Novikov, L. Ya. Karachinsky, N. Yu. Gordeev, V. A. Shchukin, I. Samid, and N. N. Ledentsov

Ioffe Institute, St.-Petersburg, Russia

T5p-14

Characterization of luminescence of thick MgZnO layers and MgZnO/ZnO quantum wells

F. Bertram, D. Forster, Th. Hempel, J. Christen, R. Kling, C. Kirchner, and A. Waag
Institute of Experimental Physics, Otto-von-Guericke-University, Magdeburg, Germany

T5p-15

Photoconductivity of Single Crystal ZnO Nanowires

Z. Fan, P. Chang, D. Wang, W. Tseng, and *J. G. Lu*
University of California, Irvine, USA

T5p-16

Two types of emitting states and energy relaxation in $\text{ZnCdSe}/\text{ZnSe}$ quantum wells with planar CdSe nano-islands

A. Reznitsky, A. Klochikhin, S. Permogorov, S. Verbin, L. Tenishev, H. Priller, H. Kalt, and C. Klingshirn
Ioffe Institute, St.-Petersburg, Russia

T5p-17

Spiral quantum wire affected by light: optical and electric response

M. V. Entin and L. I. Magarill
Institute of Semiconductor Physics, Novosibirsk, Russia

T5p-18

Strong light-matter coupling in a quantum dot: local field effects

G. Ya. Slepyan, A. Magyarov, S. A. Maksimenko, A. Hoffmann and D. Bimberg
Institute for Nuclear Problems, Belarus State University, Minsk, Belarus

T5p-19

Spin-controlled parametric polariton scattering in quasi-one-dimensional cavities

G. Dasbach, C. Diederichs, J. Tignon, Ph. Roussignol, and C. Delalande
Laboratoire Pierre Aigrain, Ecole Normale Supérieure, Paris, France

T5p-20

Photonic band-related minima in transmission spectra of opal-based photonic crystals

S. G. Romanov, D. N. Chigrin, and A. V. Lavrinenko
Ioffe Institute, St.-Petersburg, Russia

T5p-21

Photonic eigenmodes in periodically patterned systems

A. D'Andrea, L. Pilozzi, D. Schiumarini, and N. Tomassini
CNR, Istituto di Metodologie Inorganiche e dei Plasmi, Rome, Italy

T5p-22

Waveguide polaritons: interaction of quantum well exciton with electromagnetic mode of a planar waveguide

D. M. Beggs, M. A. Kaliteevski, S. Brand, R. A. Abram, V. V. Nikolaev, and
A. V. Kavokin
Dept. of Physics, University of Durham, United Kingdom

T5p-23

Quantum kinetics of spin-polarized polaritons in microcavities

M. Glazovt, I. Shelykh, K. Kavokin, A. Kavokin, and G. Malpuech
Ioffe Institute, Russia and Université Blaise Pascal, France

T5p-24

Total resonant absorption of light by plasmons in periodic metallic nanoporous film

T. V. Teperik, V. V. Popov, and F. J. Garcia de Abajo
Institute of Radio Engineering and Electronics, Saratov, Russia

T5p-25

Photonic properties of disordered porous materials

N. Tomassini, A. D'Andrea, L. Pilozzi, and D. Schiumarini
CNR, Istituto di Metodologie Inorganiche e dei Plasmi, Rome, Italy

T5p-26

Observation of spin relaxation in self-assembled InAlAs quantum dots by using four-wave mixing technique

T. Watanuki, S. Adachi, H. Sasakura, and S. Muto
Dept. of Applied Physics, Hokkaido University and CREST, Japan Science and Technology Agency, Sapporo, Japan

T5p-27

Spontaneous emission from semiconductor nanocrystals in coupled spherical microcavities

Yu. P. Rakovich, M. Gerlach, A. L. Bradley, J. F. Donegan, M. Rzylagowski,
A. Ryder, N. Gaponik, and A. L. Rogach
Semiconductor Photonics Group, Department of Physics, Trinity College, Dublin 2, Ireland

T5p-28

Multi-phonon Raman scattering in semiconductor quantum dots: the polaron effect

R. P. Miranda and M. I. Vasilevskiy

Centro de Física, Universidade do Minho, Campus de Gualtar, Braga, Portugal

T5p-29

Optical properties of polaron exciton in spherical and ellipsoidal quantum dots

I. P. Ipatova, A. Yu. Maslov, and O. V. Proshina

Ioffe Institute, St.-Peterburg, Russia

T5p-30

Electron-dipole resonance of impurity centres embedded in silicon microcavities

N. T. Bagraev, A. D. Bouravlev, W. Gehlhoff, L. E. Klyachkin, A. M. Malyarenko, and V. V. Romanov

Ioffe Institute, St.-Petersburg, Russia

T5p-31

2D assemblies of silicon nanocrystallites prepared by sol-gel method from triethoxysilane

J. Rouquette, M. Pauthé, M. Ramonda, and B. Gil

Groupe d'Etude des Semiconducteurs - Université de Montpellier II, France

T5p-32

Electron-beam pumped blue (462 nm) VCSEL on MOVPE-grown ZnSSe/ZnMgSSe MQW structure

V.Yu. Bondarev, V. I. Kozlovsky, I. V. Malyshev, P. I. Kuznetsov, V. A. Jitov, G. G. Yakushcheva, L.Yu. Zakharov

Institute of Radioengineering and Electronics, Fryazino, Russia

Friday , July 2

F1 Quantum Dots

Conference Hall 09:00 - 10:45

(chairmen: K.P. O'Donnell)

F1-1 09:00 - 09:30

Progress in fabrication and optical properties of GaN-based quantum dots (invited)

Y. Arakawa

University of Tokyo, Japan

F1-2 09:30 - 10:00

Quantum dot formation induced by surface energy change of a 2D strained layer: the case of II-VI and nitrides nanostructures (invited)

H. Mariette

Université Joseph Fourier Grenoble, France

F1-3 10:00 - 10:15
High-efficiency electron-beam pumped green semiconductor lasers based on multiple quantum disk sheets
M. M. Zverev, S. V. Sorokin, I. V. Sedova, D. V. Peregoudov, S. V. Ivanov, and P. S. Kop'ev
Ioffe Institute, St.-Petersburg, Russia

F1-4 10:15 - 10:30
Coherent quantum control of biexciton in a single quantum dot
T. Flissikowski, A. Betke, I. A. Akimov, and F. Henneberger
Humboldt – Institut für Physik, Universität zu Berlin, Germany / Ioffe Institute, St.-Petersburg, Russia

F1-5 10:30 - 10:45
Optical spin polarization in double-charged InAs self-assembled quantum dots
V. K. Kalevich, K. V. Kavokin, M. Ikezawa, T. Okuno, A. Yu. Shiryaev, A. E. Zhukov, V. M. Ustinov, and Y. Masumoto
Ioffe Institute, St.-Petersburg, Russia / University of Tsukuba, Japan

Coffee Break 10:45 - 11:15

F2 Quantum Dots in Microcavities Conference Hall 11:15 - 12:30
(chairmen: J. Y. Duboz)

F2-1 11:15 - 11:45
Quantum dot VCSELs (invited)
V. M. Ustinov
Ioffe Institute, St.-Petersburg, Russia

F2-2 11:45 - 12:00
Single and double photon emission from quantum dots embedded in optical microcavities
J. L. Perea, C. Tejedor, D. Porras
Universidad Autónoma de Madrid, Spain

F2-3 12:00 - 12:15
Single dot near-field spectroscopy for photonic crystal microcavities
A. Mintairov, Y. Tan, J. Merz, V. Tokranov, and S. Oktyabrsky
Electrical Engineering Dept., University of Notre Dame, USA

F2-4 12:15 - 12:30
CdSe/ZnSe quantum dots in microcavities for single photon emission
I. C. Robin, R. André, A. Balocchi, H. Mariette, S. Tatarenko, Le Si Dang, and J. M. Gerard
Laboratoire de Spectrométrie Physique, Université J. Fourier-Grenoble I, France

F2-5 12:30 - 12:45
GaN/AIGaN nanocavities with AlN/GaN Bragg reflectors grown in AlGaN nanocolumns by plasma-assisted MBE
J. Ristić, E. Calleja, and S. Fernández
ISOM-Dept. Ingeniería Electrónica, Universidad Politécnica, Madrid, Spain

Excursion and Banquette 13:00 - 23:00

Saturday , July 3

S1 Excitonic Effects

Conference Hall 09:00 - 10:45

(chairmen: C. Delalande)

S1-1 09:00 - 09:30

Collective behavior of interwell excitons in lateral traps (invited)

V. B. Timofeev

Institute of Solid State Physics, Russia

S1-2 09:30 - 10:00

Electromagnetically-induced transparency from spin coherences in semiconductors (invited)

H. Wang

Dept. of Physics / Oregon Center for Optics, University of Oregon, Eugene, USA

S1-3 10:00 - 10:15

Excitons and trions in heavily doped QW structures at high magnetic fields

V. P. Kochereshko, D. A. Andronikov, G. Karczewski, and S. A. Crooker

Ioffe Institute, St.-Petersburg, Russia

S1-4 10:15 - 10:30

Spontaneous emission, elastic scattering and Anderson localization of exciton-polaritons in multilayer quantum-well structures

V. A. Kosobukin

Ioffe Institute, St.-Petersburg, Russia

S1-5 10:30 - 10:45

Exchange interaction: correction to the effective mass of the yellow exciton in Cu₂O

G. Dasbach, D. Frohlich, H. Stoltz, R. Klieber, D. Suter, and M. Bayer

Institut für Physik, Universität Dortmund, Germany / Laboratoire Pierre Aigrain, Ecole Normal Supérieure, Paris, France

Coffee Break

10:45 - 11:15

S2 Wide Band-gap Materials

Conference Hall 11:15 - 13:00

(chairmen: S. V. Ivanov)

S2-1 11:15 - 11:45

ZnO based heterostructures for optoelectronics and magnetoelectronics (invited)

A. Waag

Braunschweig Technical University, Germany

S2-2 11:45 - 12:15

Biexcitons and their dephasing processes in ZnO (invited)

S. Adachi, K. Hazu, T. Sota, SF. Chichibu, G. Cantwell, D. C. Reynolds, and C. W. Litton

Dept. of Applied Physics, Hokkaido University, Japan

S2-3	12:15 - 12:30	Valence-band ordering and magneto-optical properties of bound excitons in ZnO
		<i>A. V. Rodina, M. Strassburg, M. Dworzak, U. Haboeck, A. Hoffmann, A. Zeuner, H. R. Alves, D. M. Hofmann, and B. K. Meyer</i>
		<i>Ioffe Institute, St.-Petersburg, Russia / Institute of Solid State Physics, Technical University of Berlin, Germany</i>
S2-4	12:30 - 12:45	Temperature-dependent polarized luminescence of exciton polaritons in ZnO films
		<i>A. A. Toropov, O. V. Nekrutkina, T. V. Shubina, Th. Gruber and C. Kirchner, A. Waag, K. F. Karlsson, and B. Monemar</i>
		<i>Ioffe Institute, St.-Petersburg, Russia</i>
S2-5	12:45 - 13:00	Effects of the strong coupling between light and excitons in slabs of the PbI₄-based layered perovskite-type semiconductors
		<i>V. V. Popov, T. Yu. Bagaeva, and T. V. Teperik</i>
		<i>Institute of Radio Engineering and Electronics, Saratov, Russia</i>

Lunch Break 13:00 - 14:30

S3 Magnetic Semiconductors	Conference Hall	14:30 - 15:30
		(chairmen: K. Kavokin)
S3-1	14:30 - 15:00	Magnetic circular dichroism in ferromagnetic semiconductors (invited)
		<i>T. Dietl</i>
		<i>Institute of Physics, Polish Academy of Sciences, Poland</i>
S3-2	15:00 - 15:15	Spin-lattice relaxation in diluted magnetic (Cd,Mn)Se quantum dots
		<i>A. Hundt, J. Puls, and F. Henneberger</i>
		<i>Institut für Physik der Humboldt Universität zu Berlin, Germany</i>
S3-3	15:15 - 15:30	Exciton quantum beats in CdMnTe quantum wells
		<i>M. Vladimirova, M. Nawrocki, and D. Scalbert</i>
		<i>Groupe d'Etude des Semiconducteurs, Université Montpellier 2, France</i>

S4 Closing Remarks Conference Hall 15:30 - 15:50