



28th

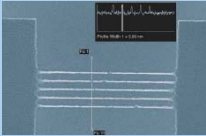
International Conference on the Physics of Semiconductors

July 24-28, 2006
Vienna, Austria





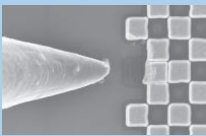
PRODUCTS



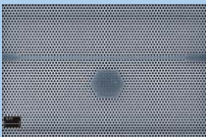
Sub 10 nm lithography



E-beam deposition



Nano Sokoban



Photonic crystal with proximity effect correction

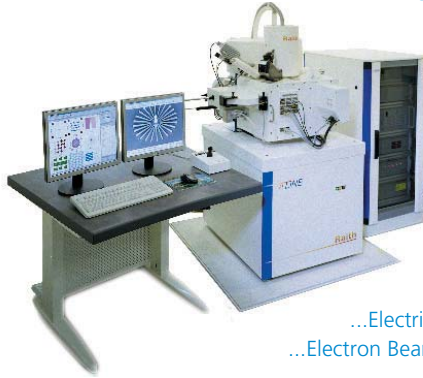


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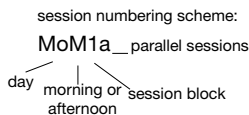
We wish to thank the following for their contribution to the success of this conference: European Office of Aerospace Research and Development, Air Force Office of Scientific Research, United States Air Force Research Laboratory (www.london.af.mil).

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Program Overview

	Festsaal	Zeremonien- saal	Gartensaal	Rittersaal	Geheime Ratstube
	MoM0 (8): Opening Ceremony				
10:00	MoM1 (8): Plenary lecture by Lars Samuelson: "Semiconductor Nanowires: from self-assembly to quantum devices"				
11:00	MoM2 (8): Plenary lecture by Andre Geim: "Graphene and its electronic properties"				
12:00	MoM3 (8): Plenary lecture by Bertrand Halperin: "Spin-charge separation, tunneling, and spin transport in one-dimensional metals"				
14:00	Jonathan J Finley		MoA1c (13): Carbon Nanotubes I	MoA1d (15): Growth and Structural Char.of Nano- structures I	MoA1e (17): Defects & Impurities
15:00	MoA1a (9): Dots & Dot Molecules: Optical Studies I	Klaus Ensslin		Takeharu Sekiguchi	
		MoA1b (11): Electronic Transport: Dots, Point	Phaedon Avouris		
16:00	Contacts, Wires & Rings				
17:00	Karl Fredrik Karlsson	MoA2b (21): Transport Studies: Dots I	MoA2c (23): Nanotubes II	Chris G. Van de Walle	MoA2e (26):
	MoA2a (20): Optical Studies: Dots II		Shahal Ilani	MoA2d (25): Electronic Structure & Growth	Kyoichi Suzuki
18:00					Superlattices



information in session boxes:

session no. (page no.): session title
invited speaker

	Festsaal	Zeremonien- saal	Gartensaal	Rittersaal	Geheime Ratstube
09:00	TuM1a (28): Frank Koppens	TuM1b (29): Photonic Devices	Jose Maria Ulloa	Vladislav B Timofeev	TuM1e (34): Microcavities I
10:00	Spin Manipula- tion	Bahram Jalali	TuM1c (31): Growth and Structural Char.of Nanos- tructures II	TuM1d (33): Excitons: Towards BEC I	
11:00					
12:00	TuM2a (36): QED and Quantum Information Processing I Cristiano Ciuti	TuM2b (38): Vanessa Sih Spin Currents	Pablo Jarillo- Herrero TuM2c (39): Nanotubes III	Le Si Dang TuM2d (41): Excitons: Towards BEC II TuM3d (44): Semimagnetic SC I	TuM2e (42): 2D Transport
14:00	Andrew J Shields Nikolay Ako- pian	TuA1b (47): Magnetic & Semimagnetic Semiconduc- tors II Lucien Besombes	TuA1c (49): Physics in the QHE Regime I and Graphene	TuA1d (51): THz & Quantum Cascade Structures Carlo Sirtori	TuA1e (54): Applications & Devices Khaled Karrai
15:00	TuA1a (45): Single Photons and Photon Entanglement				
16:00					
17:00	TuA2 (56): Late News Plenary Session: G. Bester (US), S. Rigamonti (Argentina), A. Lochmann (Germany), A. Greilich (Germany), Jorden van Dam (The Netherlands), M. Scheibner (US)				
18:00	POSTERSESSION				
19:00					

	Festsaal	Zeremonien-saal	Gartensaal	Rittersaal	Geheime Ratstube
09:00	WeM1 (148): Plenary lecture by Susumu Noda: "Photonic Crystals for Manipulation of Photons"				
10:00	WeM2 (149): Plenary lecture by George Bourinoff: "Frontiers in Nanotechnology and Devices"				
11:00	WeM3 (149): Plenary lecture by Seigo Tarucha: "Probing and manipulating spin effects in vertical quantum dots"				
12:00	WeM4 (149): Plenary lecture by Charles Marcus: "Progress in Spin-based Quantum Bits"				
Wednesday	14:00	WeA1a (150): Quantum Dots: Optical Studies, Carrier Dynam- ics and Deco- herence	Massimo Rontani	WeA1c (154): Quantum Information Processing II	Pascale Senel- lart
	15:00		WeA1b (152): Electronic Structure of Dots & Trans- port II	Daniel Loss	WeA1e (158): Microcavities II and Photonic Crystal Structures
	16:00	Guillaume Cassabois			WeA1d (156): Magnetic Nanostruct. and Spin Injection
	17:00	POSTERSESSION			
18:00					
19:00					

	Festsaal	Zeremonien- saal	Gartensaal	Rittersaal	Geheime Ratstube	
Thursday	09:00	ThM1a (256): Transport in Wires	ThM1b (257): Go Yusa	ThM1c (259): Struct., Electronic and Optical Prop. of Bulk Materials	Vittorio Pellegrini	ThM1e (262): Group IV: Surfaces and Bulk
	10:00		Nuclear Spin Interactions	L. Vina	ThM1d (260): Physics in the QHE Regime II	Marilia J Caldas
	11:00	Kazuya Take- moto	Izhar Neder	ThM2c (267): Lu J Sham	ThM2d (268): Electronic Transport in 1D Systems	ThM2e (270): Wolfgang Heiss
	12:00	ThM2a (263): Optical Studies: Dots III	ThM2b (265): Transport in Low Dimen- sional Systems	SC Spintronics and Spin Relaxation	Grzegorz Grabecki	Growth & Struc- tural Studies of Nanosystems
Friday	09:00	Hadar Stein- berg	FrM1b (273): Nitrides:	M.L.T Thewalt	FrM1d (277): Organic Semiconduc- tors	FrM1e (278): Peter Kratzer
	10:00	FrM1a (271): 1D Transport and Optics	Henning Riechert	FrM1c (275): Bulk: Excitons, Lattice and Car- rier Dynamics	Karl Leo	New Materials, Concepts, Techniques
	11:00	POSTERSESSION				
	12:00	POSTERSESSION				
14:00	FrA1a (368): Optical Studies: Dots IV:	FrA1b (370): Electronic Trans- port in Dots and Coupled Dots	FrA1c (372): Masashi Kawasaki	Giacomo Scalari	FrA1e (376): Nanocrystals	
15:00	Spins and Spin Dynamics	David A Williams	Wide Gap Semiconductors	FrA1d (374): THz, Intersub- band and Ultrafast Phenomena	Ulrike Woggon	
16:00	FrA2 (378): Plenary lecture by Atac Imamoglu: "Semiconductor cavity quantum electrody- namics for quantum information processing"					
17:00	FrA3 (378): Closing Ceremony					

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Plenary Talks

George Bourianoff (Intel, USA): Frontiers in Nanotechnology and Devices (WeM2.1)

Andre Geim (Univ. Manchester, UK): Graphene and its electronic properties (MoM2.1)

Bertrand Halperin (Harvard Univ., USA): Spin-charge separation, tunneling, and spin transport in one-dimensional metals (MoM3.1)

Atac Imamoglu (ETH Zürich, Switzerland): Semiconductor cavity quantum electrodynamics for quantum information processing (FrA2.1)

Charles Marcus (Harvard Univ., USA): Progress in Spin-based Quantum Bits (WeM4.1)

Susumu Noda (Univ. Kyoto, Japan): Photonic Crystals for Manipulation of Photons (WeM1.1)

Lars Samuelson (Lund Univ., Sweden): Semiconductor Nanowires: from self-assembly to quantum devices (MoM1.1)

Seigo Tarucha (Univ. Tokyo, Japan): Probing and manipulating spin effects in vertical quantum dots (WeM3.1)

Invited Talks

Nikolay Akopian (Technion - Israel Institute of Technology, Haifa, Israel): Entangled Photon Pairs from Semiconductor Quantum Dots (TuA1a.2)

Phaedon Avouris (IBM, New York, USA): Carbon Nanotube Electronics and Optoelectronics (MoA1c.7)

Lucien Besombes (CEA Grenoble, France): Optical probing of the spin state of a single magnetic atom in a self-assembled quantum dot (TuA1b.7)

Marilia J Caldas (Univ. de São Paulo, São Paulo, Brazil): Trimming and taming silicon surfaces: a first-principles study (ThM1e.5)

Guillaume Cassabois (Ecole Normale Supérieure, Paris, France): Motional narrowing in a semiconductor quantum dot (WeA1a.7)

Cristiano Ciuti (Ecole Normale Supérieure, Paris, France): Cavity quantum electrodynamics of semiconductor intersub-band transitions in the ultra-strong vacuum Rabi coupling regime (TuM2a.5)

Scott A. Crooker (Los Alamos National Laboratory, USA): Imaging electrical spin injection and accumulation in lateral ferromagnet/semiconductor devices (WeA1d.3)

Le Si Dang (Univ. J. Fourier, Grenoble, France): Towards Bose-Einstein condensation of microcavity polaritons? (TuM2d.1)

Klaus Ensslin (ETH Zurich, Switzerland): Is inelastic tunneling phase coherent? (MoA1b.3)

Jonathan J. Finley (TU Munich, Germany): Optically probing charge and spin couplings in electric field tunable quantum dot molecules (MoA1a.1)

Grzegorz Grabecki (Polish Academy of Sciences, Warszawa, Poland): Ballistic transport in hybrid nanostructures of paraelectric PbTe (ThM2d.5)

Wolfgang Heiss (Univ.Linz, Austria): Quantum dots with coherent interfaces between rocksalt-PbTe and zincblende-CdTe (ThM2e.3)

Shahal Ilani (Cornell Univ., USA): Measurement of the Quantum Capacitance of Individual Carbon Nanotubes (MoA2c.5)

Bahram Jalali (Univ. of California at Los Angeles, USA): Raman based Silicon photonics (TuM1b.5)

Pablo Jarillo-Herrero (Kavli Inst., TU Delft, Netherlands): Quantum supercurrent transistors in carbon nanotubes (TuM2c.1)

Karl Fredrik Karlsson (Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland): New Excitonic States Observed in Semiconductor Quantum Dots Using Polarization Resolved Optical Spectroscopy (MoA2a.1)

Khaled Karrai (Univ. Munich, Germany): Optical cooling of mechanical micro- and nano-structures (TuA1e.7)

Masashi Kawasaki (Tohoku Univ., Sendai, Japan): ZnO ultraviolet light emitting diodes (FrA1c.3)

Frank Koppens (Kavli Inst., TU Delft, Netherlands): Coherent manipulation of single electron spins by electron spin resonance in coupled quantum dots (TuM1a.3)

Peter Kratzer (Fritz-Haber-Institut, MPG, Berlin, Germany): Transition-metal silicides as novel materials for magnet-semiconductor heterostructures (FrM1e.3)

Karl Leo (Univ. Dresden, Germany): Highly efficient organic semiconductor devices (FrM1d.5)

Daniel Loss (Univ. Basel, Switzerland): Spin qubits in quantum dots: Review and Outlook (WeA1c.5)

Izhar Neder (Weizmann Institute of Science, Rehovot, Israel): Controlled Dephasing and Phase Recovery via Cross-Correlation Measurements (ThM2b.1)

Vittorio Pellegrini (Scuola Normale Superiore, Pisa, Italy): Seeing emergent phases in quantum Hall double layers (ThM1d.1)

Henning Riechert (Infineon, Munich, Germany): Growth and material physics of InGaAsN for novel devices (FrM1b.3)

Massimo Rontani (CNR-INFM Univ. Modena, Italy): Imaging correlated wave functions of few-electron quantum dots: Theory and STS experiments (WeA1b.1)

Giacomo Scalari (Univ. Neuchatel, Switzerland): Multi-wavelength operation and vertical emission in THz quantum-cascade lasers (FrA1d.1)

Takeharu Sekiguchi (KEIO Univ., Yokohama, Japan): Self-assembly of periodic nano-dots of silicon and germanium on a vicinal silicon (111) surface (MoA1d.5)

Pascale Senellart (LPN Marcoussis, France): Strong Coupling Regime for a Single Quantum Dot in an Optical Microcavity (WeA1e.1)

Lu J. Sham (Univ. of California at San Diego, USA): Optically manipulating spins in quantum dots in semiconductors (ThM2c.3)

Andrew J. Shields (Toshiba Laboratory, Cambridge, UK): Single Photon Technology Based on Quantum Dots (TuA1a.1)

Vanessa Sih (Univ. of California at Santa Barbara, USA): Imaging the spin Hall effect and current-induced polarization in two-dimensional electron gases (TuM2b.3)

Carlo Sirtori (Univ. Paris 7, France): THz sideband generation (TuA1d.5)

Hadar Steinberg (Weizmann Institute, Rehovot, Israel): Unidirectional Injection and Relaxation of Ballistic electrons in Clean Quantum Wires (FrM1a.1)

Kyoichi Suzuki (NTT Basic Research Laboratories, Kanagawa, Japan): Observation of subband standing waves in super-lattices by low-temperature scanning tunneling spectroscopy (MoA2e.3)

Kazuya Takemoto (Fujitsu Laboratories. Ltd., Atsugi, Japan): A New Approach for Single-Photon Source using Quantum Dots at Telecommunication Wavelength (ThM2a.1)

Mike L.W. Thewalt (Simon Fraser Univ., Burnaby, British Columbia, Canada): Direct Observation of the Donor Nuclear Spin in a Near-Gap Bound Exciton Transition: ^{31}P in Highly Enriched ^{28}Si (FrM1c.1)

Vladislav B. Timofeev (ISSP, Russian Academy of Sciences, Chernogolovka, Moscow, Russia): Collective state in bose-gas of interacting interwell excitons (TuM1d.1)

Jose Maria Ulloa (COBRA - Eindhoven Univ. of Technology, Eindhoven, Netherlands): Capping of InAs quantum dots studied by cross-sectional scanning tunneling microscopy (TuM1c.1)

Chris Van de Walle (Univ. of California at Santa Barbara, USA): Electronic structure of nitride surfaces (MoA2d.1)

Luis Vĭna (Univ. Autonoma Madrid, Spain): Photoluminescence dynamics in GaAs along an optically induced Mott transition (ThM1c.5)

David Williams (Hitachi Cambridge Laboratory, UK): Silicon charge qubit (FrA1b.6)

Ulrike Woggon (Univ. Dortmund, Germany): Single semiconductor nanocrystals: physics and applications (FrA1e.5)

Go Yusa (NTT Basic Research Laboratories, Atsugi, Japan): Nuclear spin control by a point contact (ThM1b.3)

IUPAP young author awards

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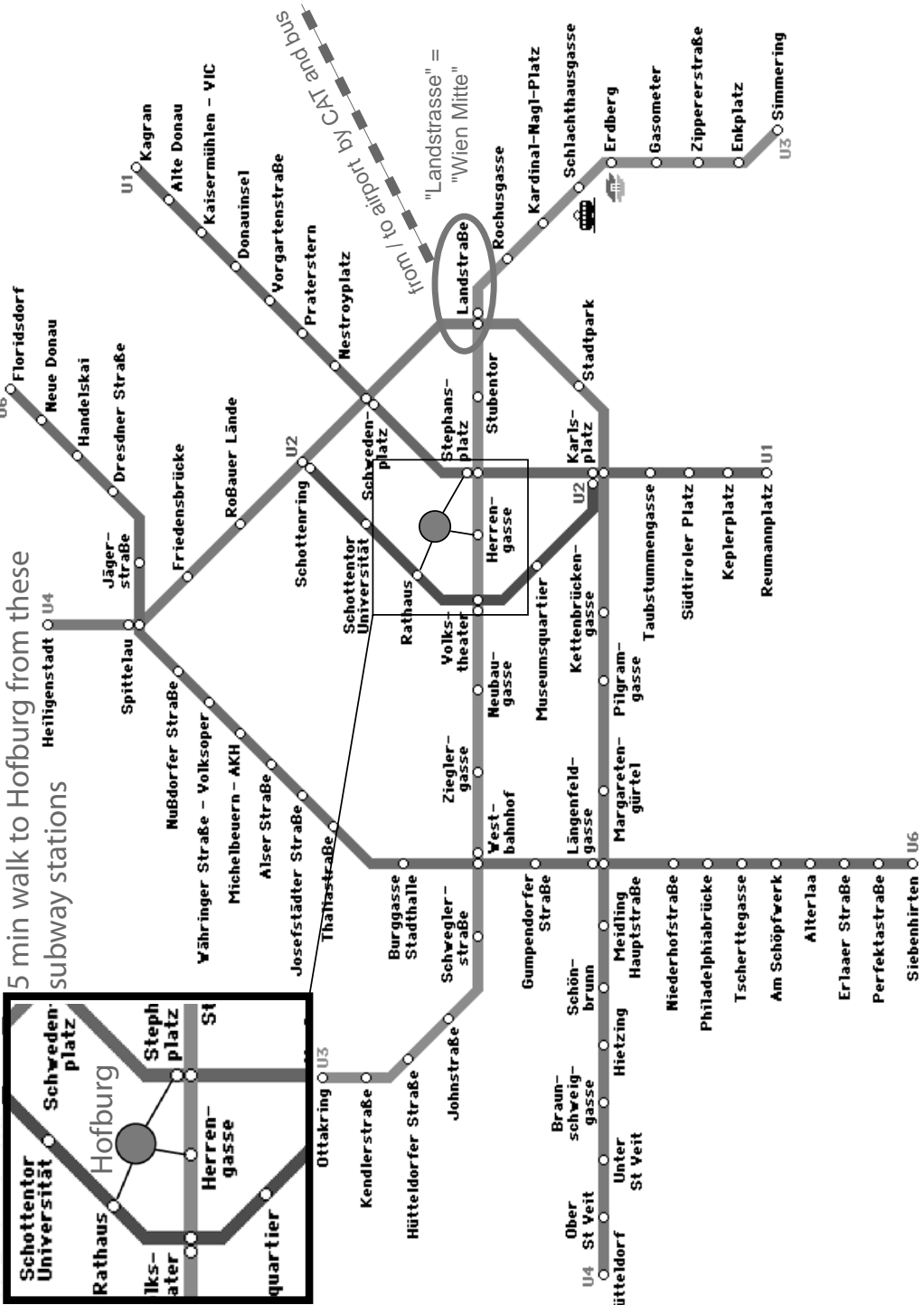
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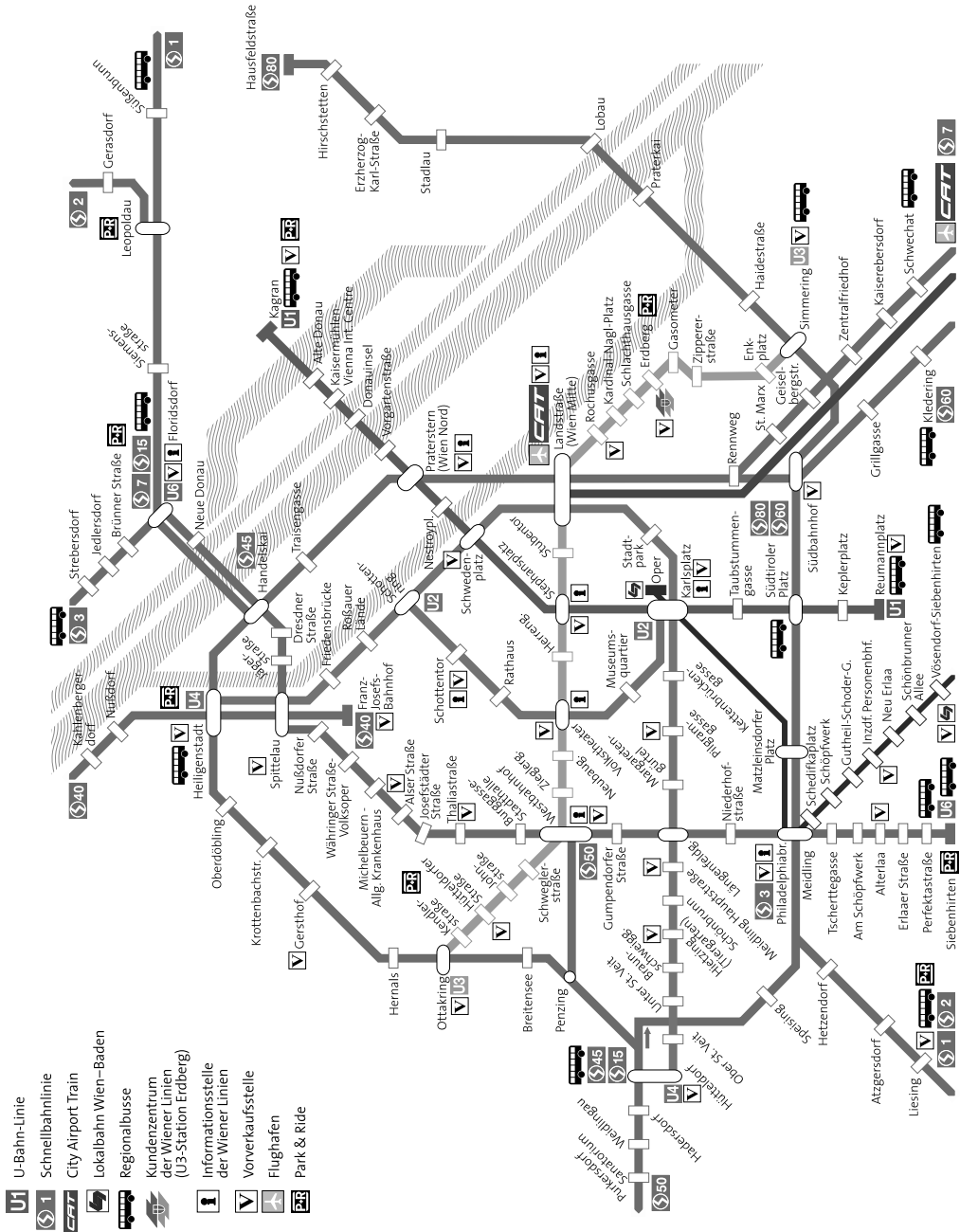
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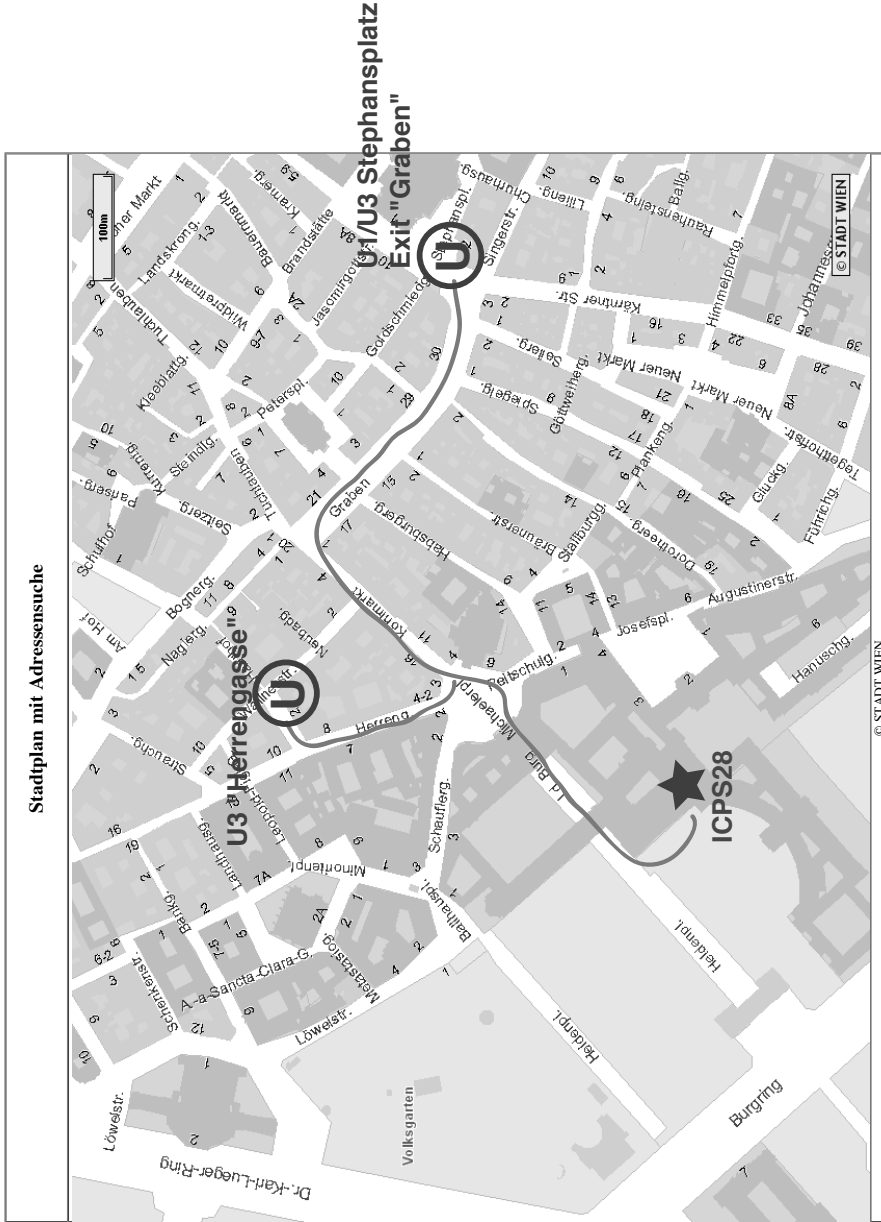
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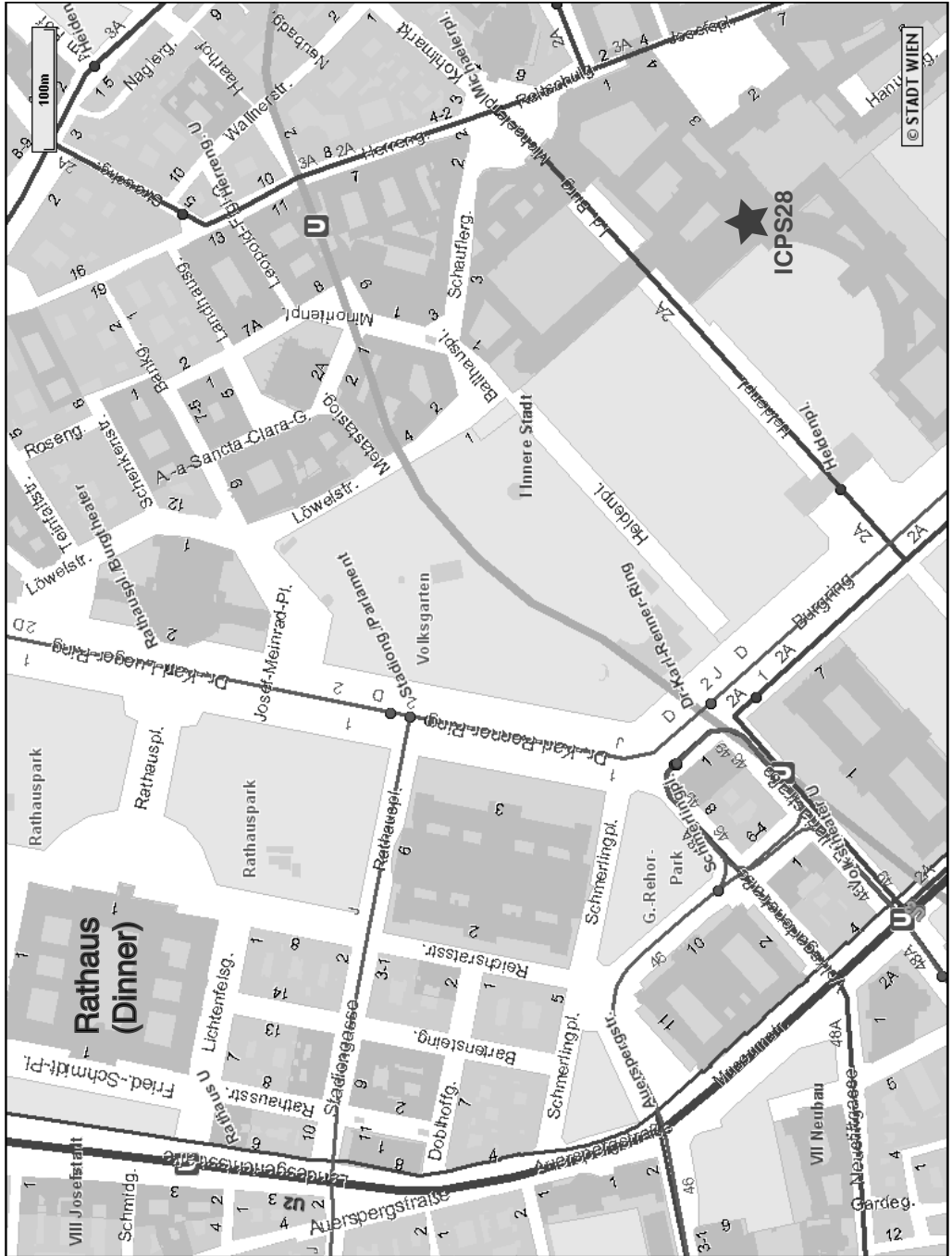


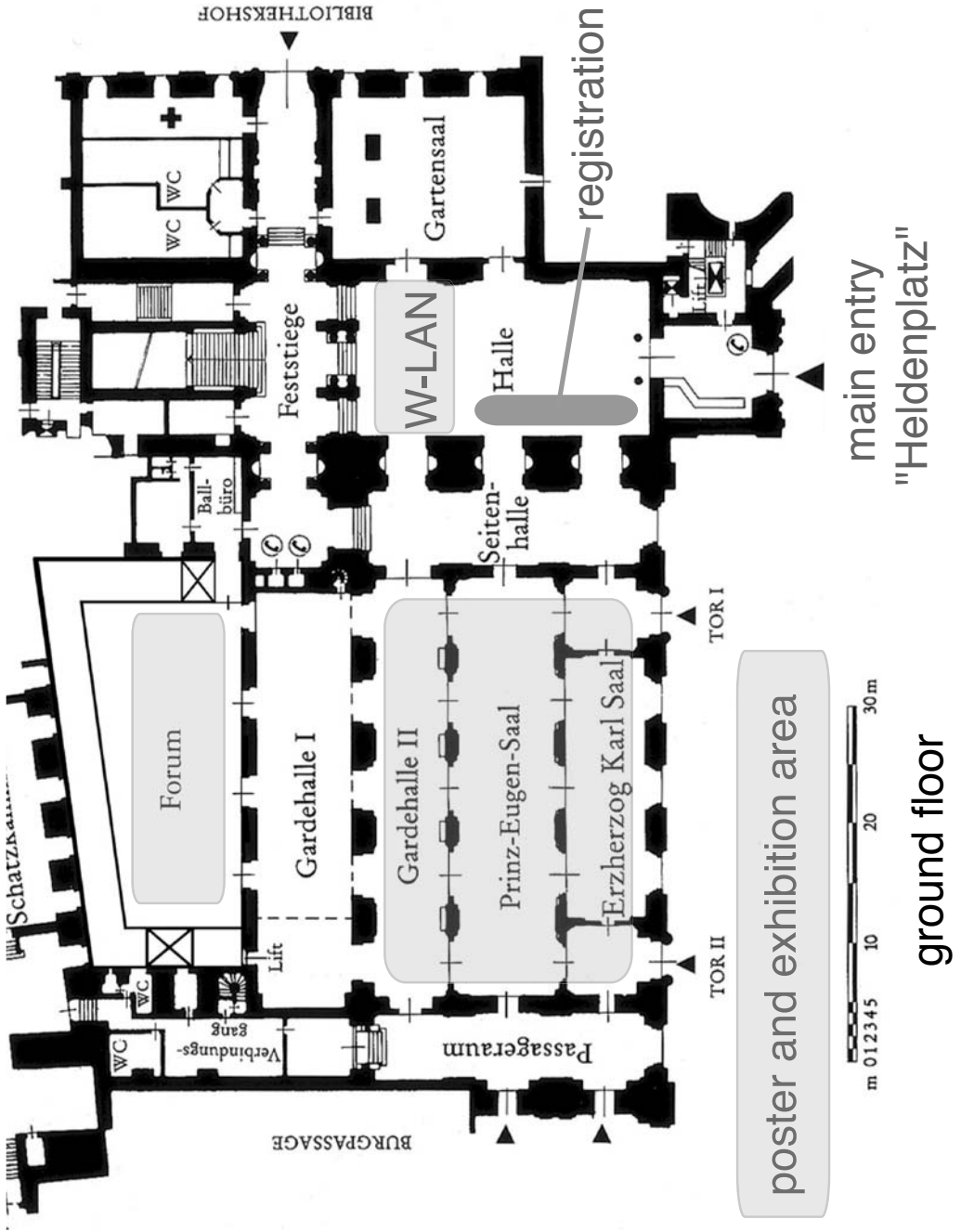


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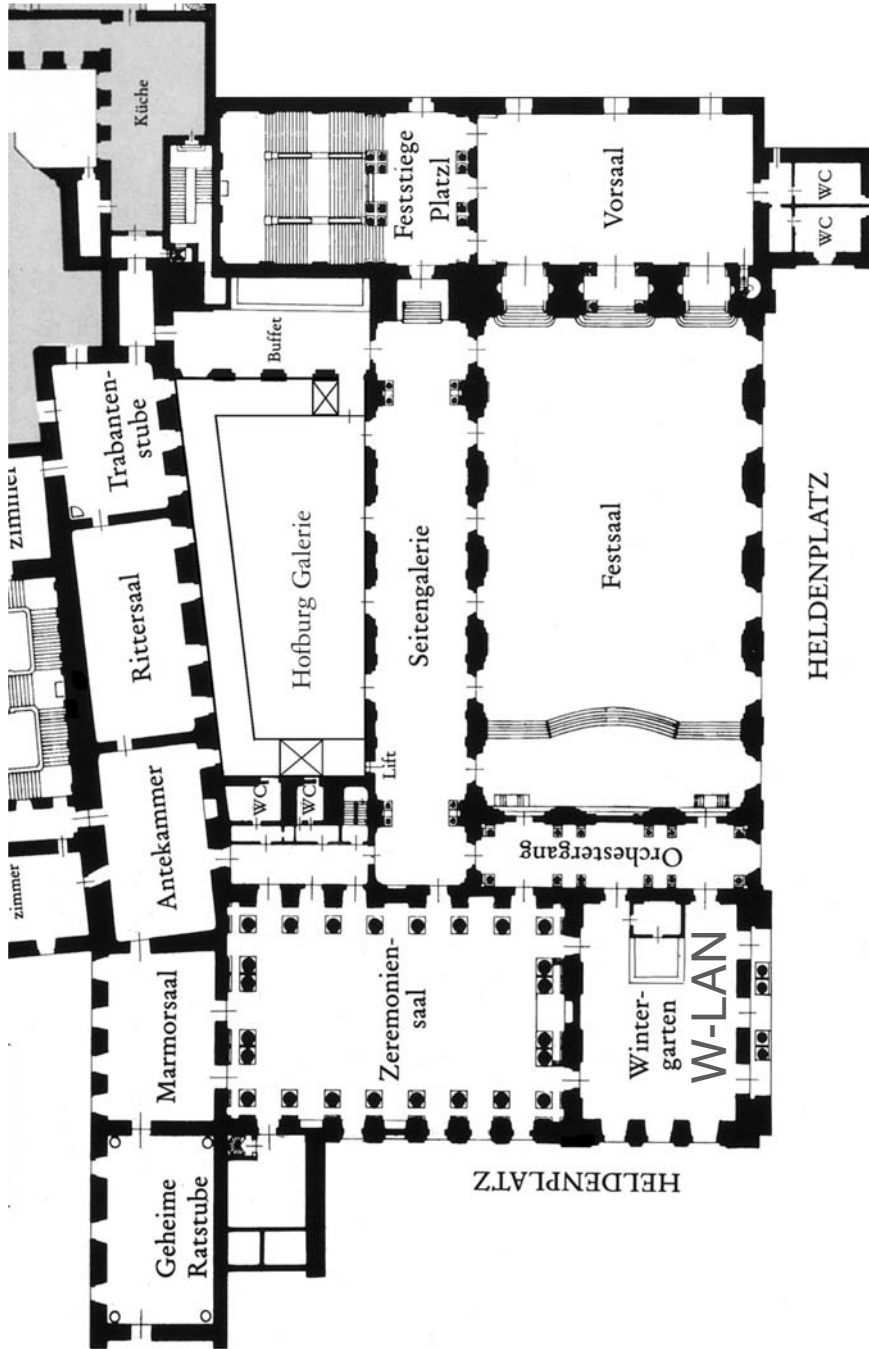
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CAT- Timetable**City Airport Train (CAT) Timetable**

City Air Terminal > Vienna International Airport

05.38	06.08	06.38	07.08	07.38	08.08	08.38	09.08	09.38
10.08	10.38	11.08	11.38	12.08	12.38	13.08	13.38	14.08
14.38	15.08	15.38	16.08	16.38	17.08	17.38	18.08	18.38
19.08	19.38	20.08	20.38	21.08	21.38	22.08	22.38	23.08

Vienna International Airport > City Air Terminal

06.05	06.35	07.05	07.35	08.05	08.35	09.05	09.35	10.05
10.35	11.05	11.35	12.05	12.35	13.05	13.35	14.05	14.35
15.05	15.35	16.05	16.35	17.05	17.35	18.05	18.35	19.05
19.35	20.05	20.35	21.05	21.35	22.05	22.35	23.05	23.35

Social Program

Conference Dinner at the Vienna City Hall. The conference dinner will take place at the Vienna City Hall by invitation of the Mayor of Vienna. The City Hall is one of the most splendid amongst the numerous monumental buildings in Vienna. Enjoy a pleasant evening with dinner and musical entertainment. Tickets can be purchased online via the registration process. As the number of participants is limited, we recommend to register early.

Date

Thursday, July 27, 2006

Time

19:00 p.m.

Meeting Point

Wiener Rathaus (City Hall Vienna) Entrance: Lichtenfelsgasse 2 1010 Vienna

Rate per Person: €70.-

Excursions

Sightseeing-tours in Vienna and it's surrounding will be organized on Thursday for the delegates of the IPCS28 conference. Every registered participant and accompanying person can register free of charge for ONE of the following tours on Thursday afternoon (Tour 1 – Tour 4).

TOUR 1a & b:

Grand City Tour with Palace Schönbrunn

TOUR 2:

Art Nouveau in Vienna

TOUR 3:

Vienna Woods & Mayerling

TOUR 4:

Prater – Klosterneuburg – Kahlenberg

Optional Tours

TOUR 5:

Castle Esterhazy and Lake Neusiedl (Tuesday, €95,-)

TOUR 6:

Abbey of Göttweig and Wine-City Krems (Wednesday, €57,-)

TOUR 7:

Wachau Danube Valley and Abbey of Melk (Friday, €61,-)

MoM0-MoM3: Opening Ceremony and Plenary Lectures

Monday 9:15–12:30; Festsaal; Chair: Y. Arakawa (MoM1), L. Eaves (MoM2, MoM3)

- 9:15 MoM0 **Opening Ceremony** — ERICH GORNIK (Conference Chair), HIROYUKI SAKAKI (IUPAP C8 Commission Chair), FRIEDEMAR KUCHAR (Conference Vice Chair)
- 9:45 MoM1.1 **Semiconductor Nanowires: from self-assembly to quantum devices** — LARS SAMUELSON
(Plenary talk)
- 10:30 **Break**
- 11:00 MoM2.1 **Graphene and its electronic properties** — ANDRE GEIM
(Plenary talk)
- 11:45 MoM3.1 **Spin-charge separation, tunneling, and spin transport in one-dimensional metals** — BERTRAND I HALPERIN
(Plenary talk)

MoA1a: Dots & Dot Molecules: Optical Studies I

Monday 14:00–16:00; Festsaal; Chair: M. Bayer

- 14:00 MoA1a.1 **Optically probing charge and spin couplings in electric field tunable quantum dot molecules** — JONATHAN J FINLEY
(Invited talk)
- 14:30 MoA1a.2 **Optical Spectroscopy Of Charged Quantum Dot Molecules** — MICHAEL SCHEIBNER
- 14:45 MoA1a.3 **Theory of spin states of quantum dot molecules** — ILYA V PONOMAREV
- 15:00 MoA1a.4 **Controlled Tunnel Coupling using a Lateral InGaAs/GaAs Quantum Dot Molecule** — CLAUD HERMANNSTÄDTER
- 15:15 MoA1a.5 **Measurement and control of spin and charge interactions in an individual self-assembled InGaAs quantum dot molecule** — EMILY C CLARK
- 15:30 MoA1a.6 **Phonon-induced electron relaxation in correlated quantum dots** — ANDREA BERTONI
- 15:45 MoA1a.7 **Optical properties of charged self-assembled quantum dots** — MAREK J. KORKUSINSKI

MoA1b: Electronic Transport: Dots, Point Contacts, Wires, & Rings

Monday 14:00–16:00; Zeremoniensaal; Chair: D. A. Ritchie

- 14:00 MoA1b.1 **Spontaneous spin polarization in quantum point contacts** — LEONID P. ROKHINSON
- 14:15 MoA1b.2 **Real-space imaging of electron flow in Aharonov-Bohm rings** — BENOIT HACKENS
- 14:30 MoA1b.3 **Is inelastic tunneling phase coherent?** — KLAUS ENSSLIN
(Invited talk)
- 15:00 MoA1b.4 **Rectified Coulomb drag induced by Wigner crystallization in quantum wires** — MICHIHISA YAMAMOTO
- 15:15 MoA1b.5 **Conductance quantization in Schottky-gated Si/SiGe quantum point contacts** — ANDREA NOTARGIACOMO
- 15:30 MoA1b.6 **Counting statistics of single electron transport in a quantum dot** — RENAUD LETURCQ
- 15:45 MoA1b.7 **Counting statistics of single electron transport through a double quantum dot** — TOSHIMASA FUJISAWA

MoA1c: Carbon Nanotubes I

Monday 14:00–16:00; Gartensaal; Chair: T. Ando

- 14:00 MoA1c.1 **Li-inserted during the growth process of carbon nanotubes** — VÓLIA LEMOS
- 14:15 MoA1c.2 **One-Dimensional Characteristics of Third-Order Nonlinear Optical Response in Single-Walled Carbon Nanotubes** — ARAO NAKAMURA
- 14:30 MoA1c.3 **Self-assembled carbon nanotube phototransistors and memory devices** — ARI-ANNA FILORAMO

- 14:45 MoA1c.4 **Orbital-selective transport in defective carbon nanotubes and its application to field emission devices** — JISOON IHM
- 15:00 MoA1c.5 **Temperature dependent Photoluminescence from carbon nanotubes** — IAN G MORTIMER
- 15:15 MoA1c.6 **Observation of Exciton-Phonon Bound States in Carbon Nanotubes** — FLÁVIO PLENTZ
- 15:30 MoA1c.7 **Carbon Nanotube Electronics and Optoelectronics** — PHAEDON AVOURIS
(Invited talk)

MoA1d: Growth and Structural Characterization of Nanostructures I

Monday 14:00–16:00; Rittersaal; Chair: D. Grützmacher

- 14:00 MoA1d.1 **Programming the shape of highly ordered Ge islands on Si: from dots to rods** — OSCAR D. DUBON
- 14:15 MoA1d.2 **Ordering of strained Ge islands on prepatterned Si(001) substrates** — GANG CHEN
- 14:30 MoA1d.3 **Self-ordering of Ge/Si(001) islands driven by silicon capping** — GIOVANNI CAPELLINI
- 14:45 MoA1d.4 **In-situ X-ray investigation of the growth of Ge islands on nanostructured and nominal Si substrates** — TOBIAS U SCHÜLLI
- 15:00 MoA1d.5 **Self-assembly of periodic nano-dots of silicon and germanium on a vicinal silicon (111) surface** — TAKEHARU SEKIGUCHI
(Invited talk)
- 15:30 MoA1d.6 **Intermixing on SiGe:Si(001) islands** — MARINA SOARES LEITE
- 15:45 MoA1d.7 **Towards coupled and perfectly resonant quantum dot systems: New strategies** — ARMANDO RASTELLI

MoA1e: Defects & Impurities

Monday 14:00–16:00; Geheime Ratstube; Chair: B. Koiller

- 14:00 MoA1e.1 **Stoichiometry Driven Impurity Configurations in Compound Semiconductors** — ANANT K RAMDAS
- 14:15 MoA1e.2 **Two-electron Transitions for Excitons Bound at Shallow Neutral Donors in HVPE GaN** — BO A MONEMAR
- 14:30 MoA1e.3 **Defect Doping of InN** — REBECCA E. JONES
- 14:45 MoA1e.4 **Stability of Defects in Semiconductor Quantum Dots** — SU-HUAI WEI
- 15:00 MoA1e.5 **Self-diffusion of Si at low temperatures ($T < 855$ °C) revealed by annealing and Raman spectroscopy of Si isotope superlattices** — YASUO SHIMIZU
- 15:15 MoA1e.6 **Spontaneous terahertz electroluminescence under impact ionization of a shallow acceptor in Ge** — ALEXANDER VASILIEVICH ANDRIANOV
- 15:30 MoA1e.7 **Giant Fano Resonance of Infrared Photoconductivity in Ge:Te** — HIROYASU NAKATA
- 15:45 MoA1e.8 **Electronic and optical properties of amorphous silica by first-principles** — LAYLA MARTIN-SAMOS

MoA2a: Optical Studies: Dots II

Monday 16:30–18:00; Festsaal; Chair: G. Bastard

- 16:30 MoA2a.1 **New Excitonic States Observed in Semiconductor Quantum Dots Using Polarization Resolved Optical Spectroscopy** — KARL FREDRIK KARLSSON
(Invited talk)
- 17:00 MoA2a.2 **Temperature dependent photocurrent spectroscopy of a single InGaAs/GaAs quantum dot** — MARC C. HÜBNER
- 17:15 MoA2a.3 **Polarization Conversion and Magneto-Optical Anisotropy of Self-assembled Quantum Dots** — TOBIAS KIESSLING
- 17:30 MoA2a.4 **Optical near-field mapping of bright and dark quantum dot states** — ULRICH HOHENESTER
- 17:45 MoA2a.5 **Shell-Filling of Hole levels in InAs Quantum Dots** — PETER CHRISTIANEN

MoA2b: Transport Studies: Dots I

Monday 16:30–18:00; Zeremoniensaal; Chair: W. Zawadzki

- 16:30 MoA2b.1 **Surface Acoustic Wave induced Transport in a Double Quantum Dot** — WILFRED G. VAN DER WIEL
- 16:45 MoA2b.2 **Magnetotunneling through stacked InAs/InGaAs/InP self-assembled quantum dots.** — ANDREZA G. DA SILVA
- 17:00 MoA2b.3 **Imaging Few-Electron Quantum Dots in InAs/InP Nanowires: Imaging Experiments** — ANIA C BLESZYNSKI
- 17:15 MoA2b.4 **Bias-Controlled Selective Tunnelling Excitation of Electroluminescence from Individual Quantum Dots in a Large Ensemble** — ANDREAS BAUMGARTNER
- 17:30 MoA2b.5 **Comparable homogenous and inhomogeneous quantum dot luminescence linewidths at room temperature** — M BENYOUCEF
- 17:45 MoA2b.6 **Optical resonant modes in SiOx/Si inverted rolled-up microtubes** — RUDEESUN SONGMUANG

MoA2c: Nanotubes II

Monday 16:30–18:00; Gartensaal; Chair: R. Nicholas

- 16:30 MoA2c.1 **Time-resolved photoluminescence of single wall carbon nanotubes** — CHRISTOPHE VOISIN
- 16:45 MoA2c.2 **Single electron transport of carbon nanotube quantum dots under THz laser irradiation** — TOMOKO FUSE
- 17:00 MoA2c.3 **Exciton luminescence of single-walled carbon nanotubes investigated by single nanotube spectroscopy** — TADASHI INOUE
- 17:15 MoA2c.4 **Excitons in Carbon Nanotubes** — RODRIGO B CAPAZ
- 17:30 MoA2c.5 **Measurement of the Quantum Capacitance of Individual Carbon Nanotubes** — SHAHAL ILANI
(*Invited talk*)

MoA2d: Electronic Structure & Growth

Monday 16:30–18:00; Rittersaal; Chair: W. Walukiewicz

- 16:30 MoA2d.1 **Electronic structure of nitride surfaces** — CHRIS G. VAN DE WALLE
(*Invited talk*)
- 17:00 MoA2d.2 **Progress in MBE Growth and Properties of InN** — GREGOR KOBLMUELLER
- 17:15 MoA2d.3 **Transmission Electron Microscopy Study of InN Nanorods** — ZUZANNA LILIENTAL-WEBER
- 17:30 MoA2d.4 **MnAs dots on GaN(000 $\bar{1}$) surface - growth process and electronic structure** — BOGDAN J. KOWALSKI
- 17:45 MoA2d.5 **Atomistic structure of ZnSe nanowires on ZnSe(001) grown catalytically at low temperatures** — YUTAKA OHNO

MoA2e: Superlattices

Monday 16:30–18:00; Geheime Ratstube; Chair: P. Lustoza de Souza

- 16:30 MoA2e.1 **The coherent Fiske effect in semiconductor superlattices** — HARTMUT G ROSKOS
- 16:45 MoA2e.2 **Relaxation dynamics of interminiband transitions and electron cooling in doped GaAs/AlGaAs superlattices** — DOMINIK STEHR
- 17:00 MoA2e.3 **Observation of subband standing waves in superlattices by low-temperature scanning tunneling spectroscopy** — KYOICHI SUZUKI
(*Invited talk*)
- 17:30 MoA2e.4 **Electronic conduction in low-dimensional semiconductor superlattices** — DAVID FOWLER
- 17:45 MoA2e.5 **Electronic Properties of Carbon Nanoribbons and Peculiar Width Dependence** — MOTOHIKO EZAWA

TuM1a: Spin Manipulation

Tuesday 9:00–10:30; Festsaal; Chair: Y. Hirayama

- 9:00 TuM1a.1 **Spin precession monitored by laser pulses** — MONIQUE COMBESCOT
- 9:15 TuM1a.2 **Electron spin dynamics during transport using moving quantum dots** — JAMES A H STOTZ
- 9:30 TuM1a.3 **Coherent manipulation of single electron spins by electron spin resonance in coupled quantum dots** — FRANK KOPPENS
(*Invited talk*)
- 10:00 TuM1a.4 **Electron spin manipulation, detection, and relaxation in a high mobility silicon quantum well** — JUNYA MATSUNAMI
- 10:15 TuM1a.5 **Inversion asymmetry induced spin splitting in the magnetization of a two-dimensional electron system** — MARC A. WILDE

TuM1b: Photonic Devices

Tuesday 9:00–10:30; Zeremoniensaal; Chair: E. Kapon

- 9:00 TuM1b.1 **5 μ m Intersubband Raman Laser from GaInAs/InAlAs double Quantum Wells** — MAXI SCHEINERT
- 9:15 TuM1b.2 **Continuous wave operation of blue InGaN laser diodes made by plasma assisted MBE** — CZESLAW SKIERBISZEWSKI
- 9:30 TuM1b.3 **Towards a quantum dot based single photon emitter operating at room temperature** — CARSTEN KRUSE
- 9:45 TuM1b.4 **Ultra High Speed Submonolayer Quantum Dot Vertical-Cavity Surface-Emitting Lasers** — ALEX MUTIG
- 10:00 TuM1b.5 **Raman based Silicon photonics** — BAHRAM JALALI
(*Invited talk*)

TuM1c: Growth and Structural Characterization of Nanostructures II

Tuesday 9:00–10:30; Gartensaal; Chair: P. Calleja

- 9:00 TuM1c.1 **Capping of InAs quantum dots studied by cross-sectional scanning tunneling microscopy** — JOSE MARIA ULLOA
(*Invited talk*)
- 9:30 TuM1c.2 **Sharp Interfacial Structure of InAs/InP Quantum Dots Grown by a Double-Cap Method: A Cross-Sectional Scanning Tunneling Microscopy Study** — A. NAKAMURA
- 9:45 TuM1c.3 **Growth, Atomic Structure, and Electronic Properties of GaSb/GaAs Nanostructures: Quantum Wells, Dots, and Rings** — RAINER TIMM
- 10:00 TuM1c.4 **Shape Transition during Epitaxial Growth of InAs Quantum Dots on GaAs(001): Theory and Experiment** — Q. K.K. LIU
- 10:15 TuM1c.5 **Laterally aligned GaAs quantum dot molecules grown by droplet epitaxy** — MASAKAZU YAMAGIWA

TuM1d: Excitons: Towards Bose-Einstein-Condensation I

Tuesday 9:00–10:30; Rittersaal; Chair: H. Mariette

- 9:00 TuM1d.1 **Collective state in bose-gas of interacting interwell excitons** — VLADISLAV B TIMOFEEV
(*Invited talk*)
- 9:30 TuM1d.2 **Artificial trapping of a stable high-density dipolar exciton fluid** — GANG CHEN
- 9:45 TuM1d.3 **Trapping of 2D excitons and polaritons** — ZOLTAN VOROS
- 10:00 TuM1d.4 **Drift mobility of long-living excitons in coupled GaAs quantum wells** — ALEXANDER W. HOLLEITNER
- 10:15 TuM1d.5 **Towards Bose-Einstein condensation of excitons in coupled quantum wells: Combined treatment of disorder and exciton-exciton interaction** — ROLAND ZIMMERMANN

TuM1e: Microcavities I

Tuesday 9:00–10:30; Geheime Ratstube; Chair: A. Forchel

- 9:00 TuM1e.1 **Quantum confinement of microcavity polaritons** — OUNSI EL DAÏF
- 9:15 TuM1e.2 **Polariton quantum blockade in a photonic dot** — ARNAUD VERGER
- 9:30 TuM1e.3 **Optical Parametric Oscillation in a Vertical Triple Microcavity** — JEROME TIGNON
- 9:45 TuM1e.4 **Coherent modulation of microcavity-polaritons by acoustic phonons** — MAURÍCIO M DE LIMA
- 10:00 TuM1e.5 **Polaritons composed of 2DEG Fermi-edge transitions in a GaAs/AlGaAs modulation doped quantum well embedded in a microcavity** — ALON GABBAY
- 10:15 TuM1e.6 **Microcavity polaritons: unified treatment of disorder on excitons and photons** — VINCENZO SAVONA

TuM2a: Quantum Electrodynamics and Quantum Information Processing I

Tuesday 11:00–12:30; Festsaal; Chair: T. Reinecke

- 11:00 TuM2a.1 **QND measurement of a single-spin in a dot-cavity system by optical means** — FILIPPO TROIANI
- 11:15 TuM2a.2 **Charge fluctuation induced dephasing of exchange coupled spin qubits** — XUE-DONG HU
- 11:30 TuM2a.3 **Coherent manipulations of an electric-field-tunable quantum dot** — ARTUR ZRENNER
- 11:45 TuM2a.4 **Coherent dynamics of single quantum dot exciton qubit driven by detuned optical pulses with electrical readout** — MAURICE S SKOLNICK
- 12:00 TuM2a.5 **Cavity quantum electrodynamics of semiconductor intersubband transitions in the ultra-strong vacuum Rabi coupling regime** — CRISTIANO CIUTI
(Invited talk)

TuM2b: Spin Currents

Tuesday 11:00–12:30; Zeremoniensaal; Chair: T. Dietl

- 11:00 TuM2b.1 **Spin photocurrent and current-induced spin polarization in an InGaAs/InAlAs two-dimensional electron gas** — WEIKUN GE
- 11:15 TuM2b.2 **g-factor tuning by an electric current in modulation-doped Si quantum wells** — HANS MALISSA
- 11:30 TuM2b.3 **Imaging the spin Hall effect and current-induced polarization in two-dimensional electron gases** — VANESSA SIH
(Invited talk)
- 12:00 TuM2b.4 **Scattering induced spin separation at zero bias** — SERGEY A. TARASENKO
- 12:15 TuM2b.5 **Tunable spin-spin interaction in a quantum dot array using a solid state Stern-Gerlach setup** — GONZALO USAJ

TuM2c: Nanotubes III

Tuesday 11:00–12:30; Gartensaal; Chair: J. Ihm

- 11:00 TuM2c.1 **Quantum supercurrent transistors in carbon nanotubes** — PABLO JARILLO-HERRERO
(Invited talk)
- 11:30 TuM2c.2 **High Field Magneto-Optical Study of the Aharonov-Bohm State in Single-Walled Carbon Nanotubes** — HIROYUKI YOKOI
- 11:45 TuM2c.3 **Aharonov-Bohm effects on optical phonons in carbon nanotubes** — TSUNEYA ANDO
- 12:00 TuM2c.4 **Photoluminescence blinking and spectral diffusion of an individual single-walled carbon nanotube** — KAZUNARI MATSUDA
- 12:15 TuM2c.5 **Transition level dependence of Raman intensities in carbon nanotubes: Role of exciton decay** — SERGUEI V. GOUPALOV

TuM2d: Excitons: Towards Bose-Einstein-Condensation II

Tuesday 11:00–12:00; Rittersaal; Chair: J. Gaj

- 11:00 TuM2d.1 **Towards Bose-Einstein condensation of microcavity polaritons ?** — LE SI DANG
(*Invited talk*)
- 11:30 TuM2d.2 **Long range order of a Bose-Einstein condensate in a semiconductor microcavity** — AUGUSTIN BAAS
- 11:45 TuM2d.3 **Kinetics of quantum fluctuations in polariton Bose Einstein condensation** — DAVIDE SARCHI

TuM2e: 2D Transport

Tuesday 11:00–12:30; Geheime Ratstube; Chair: D. Heitmann

- 11:00 TuM2e.1 **Imaging Magnetic Focusing in a Two-Dimensional Electron Gas** — KATHERINE E. AIDALA
- 11:15 TuM2e.2 **Mechanically detected electron energy dissipation in two-dimensional electron systems** — HIROSHI YAMAGUCHI
- 11:30 TuM2e.3 **Measuring the energy distribution of partially relaxed non-equilibrium ballistic electrons in two dimensions** — FRANK HOHLS
- 11:45 TuM2e.4 **Non-insulating transport of GaAs two-dimensional holes in strong Coulomb interaction regime** — JIAN HUANG
- 12:00 TuM2e.5 **Possible ground state of a two-dimensional electron gas at low density** — MICHEL I DYAKONOV
- 12:15 TuM2e.6 **Can Shot-Noise Measurements Distinguish Between Coherent and Sequential Tunneling?** — H. T GRAHN

TuM3d: Semimagnetic Semiconductors I

Tuesday 12:00–12:30; Rittersaal; Chair: J. Gaj

- 12:00 TuM3d.1 **Ultrafast spin relaxation and dynamics of carriers in a diluted magnetic semiconductor quantum well** — YASUO OKA
- 12:15 TuM3d.2 **Spin and orbital quantization of electronic states as origins of second harmonic generation in semiconductors** — INGO SÄNGER

TuA1a: Single Photons and Photon Entanglement

Tuesday 14:00–16:00; Festsaal; Chair: P. Michler

- 14:00 TuA1a.1 **Single Photon Technology Based on Quantum Dots** — ANDREW J SHIELDS
(*Invited talk*)
- 14:30 TuA1a.2 **Entangled Photon Pairs from Semiconductor Quantum Dots** — NIKOLAY AKOPIAN
(*Invited talk*)
- 15:00 TuA1a.3 **Polarization preservation between a photon pair from biexciton-exciton cascaded decay process in a single InAlAs quantum dot** — HIDEKAZU KUMANO
- 15:15 TuA1a.4 **Polarization dependent correlations of single photons from CdTe/ZnTe quantum dots** — JAN SUFFCZYŃSKI
- 15:30 TuA1a.5 **Contrast in transmission spectroscopy of single quantum dots** — BRIAN D. GERARDOT
- 15:45 TuA1a.6 **The radiative lifetime of charged excitons in a single self-assembled quantum dot** — PAUL A DALGARNO

TuA1b: Magnetic & Semimagnetic Semiconductors II

Tuesday 14:00–16:00; Zeremoniensaal; Chair: H. Ohno

- 14:00 TuA1b.1 **Quantitative giant Zeeman effect in (Zn,Co)O and (Ga,Mn)N** — WOJCIECH PAKUSKI
- 14:15 TuA1b.2 **Magnetic Properties of GeMn: on the way to a group IV DMS** — DOMINIQUE BOUGEARD
- 14:30 TuA1b.3 **Intrinsic ferromagnetism in wurtzite (Ga,Mn)N semiconductor grown by plasma-assisted molecular-beam epitaxy** — EIRINI SARIGIANNIDOU
- 14:45 TuA1b.4 **Carrier Dynamics and Enhanced Ferromagnetism in Annealed GaMnAs** — KENNETH S BURCH
- 15:00 TuA1b.5 **Ultrafast study of standing spin waves in ferromagnetic GaMnAs thin films: exchange and anisotropy effects** — DAIMIAN WANG
- 15:15 TuA1b.6 **Mn L_{3,2} X-ray Absorption and Magnetic Circular Dichroism in Ferromagnetic Ga_{1-x}Mn_xP** — PETER R STONE
- 15:30 TuA1b.7 **Optical probing of the spin state of a single magnetic atom in a self-assembled quantum dot.** — L. BESOMBES
(Invited talk)

TuA1c: Physics in the QHE Regime I and Graphene

Tuesday 14:00–16:00; Gartensaal; Chair: H. Aoki

- 14:00 TuA1c.1 **Particle-hole symmetry in the quantum Hall transport** — STEFANO RODDARO
- 14:15 TuA1c.2 **Berry phase 2π quasiparticles, Landau level degeneracy and quantum Hall effect in a bilayer of graphene** — EDWARD MCCANN
- 14:30 TuA1c.3 **Infrared magnetospectroscopy of two-dimensional electrons in graphene** — MARCIN L SADOWSKI
- 14:45 TuA1c.4 **Edge States and the Quantized Hall Effect in Graphene** — LUIS BREY
- 15:00 TuA1c.5 **Theory of transport in bilayer graphenes** — MIKITO KOSHINO
- 15:15 TuA1c.6 **Raman spectroscopy on individual few-layer graphene islands** — DAVY GRAF
- 15:30 TuA1c.7 **Resistance Ridges Along Filling Factor $\nu = 4i$ in SiO₂/Si/SiO₂ Quantum Wells** — KEI TAKASHINA
- 15:45 TuA1c.8 **Landau Level Crossing and Ring-like Structure in a Parabolic Well** — GUENNADII M GUSEV

TuA1d: THz & Quantum Cascade Structures

Tuesday 14:00–16:00; Rittersaal; Chair: C. Gmachl

- 14:00 TuA1d.1 **Terahertz quantum-cascade laser dynamics in time-domain** — JOSEF KRÖLL
- 14:15 TuA1d.2 **Time-Resolved Studies of Gain Dynamics in a Quantum Cascade Laser** — HYUNYONG CHOI
- 14:30 TuA1d.3 **Bloch gain and single-pulse THz-emission experiments** — HARTMUT G ROSKOS
- 14:45 TuA1d.4 **Mapping charge carrier distributions with THz microscopy** — FEDERICO BUERSGENS
- 15:00 TuA1d.5 **THz sideband generation** — CARLO SIRTORI
(Invited talk)
- 15:30 TuA1d.6 **Advanced device architectures for terahertz quantum cascade lasers** — RICHARD P GREEN
- 15:45 TuA1d.7 **Direct Measurement of Optical Phonon Limited Hole Intersubband Lifetimes in SiGe Quantum Cascade Structures** — PATRICK RAUTER

TuA1e: Applications & Devices

Tuesday 14:00–16:00; Geheime Ratstube; Chair: M. Helm

- 14:00 TuA1e.1 **Physical mechanism and ultimate improvement of Vfb shifts of SiN based SiON gate dielectrics** — KOICHI KATO
- 14:15 TuA1e.2 **Electronic transport properties of strained Si thin films** — JUN YAMAUCHI
- 14:30 TuA1e.3 **Single Electron-based Flexible Multi-valued NAND Logic Gates** — SANG J KIM
- 14:45 TuA1e.4 **Novel nanoelectronic device applications based on the nonlinearity of three-terminal ballistic junctions** — HONGQI XU
- 15:00 TuA1e.5 **Probing the strain distribution in III-V semiconductor micro-origami tubes by Raman spectroscopy** — A. BERNARDI
- 15:15 TuA1e.6 **Efficient Laser Driving Scheme for Bi-Layer Nanoelectromechanical Systems** — JÖRG P KOTTHAUS
- 15:30 TuA1e.7 **Optical cooling of mechanical micro- and nano-structures** — KHALED KARRAI
(Invited talk)

TuA2: Late News Plenary Session

Tuesday 16:30–17:30; Festsaal

- 16:30 TuA2.1 **Supercurrent reversal in quantum dots** — JORDEN VAN DAM
- 16:40 TuA2.2 **Mode locking of electron spin coherences in singly charged InGaAs/GaAs quantum dots** — DMITRI R YAKOVLEV
- 16:50 TuA2.3 **Fine Structure In The Optical Spectra Of Quantum Dot Molecules** — ALLAN S. BRACKER
- 17:00 TuA2.4 **Importance of Second-Order Piezoelectric Effects in Zinc-Blende Semiconductors** — GABRIEL BESTER
- 17:10 TuA2.5 **Realization of the ultimate limit of a light emitting diode** — ANATOL LOCHMANN
- 17:20 TuA2.6 **What can we learn on the “universal” exchange-correlation functional of Density Functional Theory from the subband electronic structure of semiconductor quantum wells?** — CÉSAR R. PROETTO

TuA3f: Growth, surfaces, and interfaces: Atomic and electronic structure

Tuesday 17:30–19:30; Poster

- 17:30 TuA3f.1 **More Accurate Models of the Interfaces Oxide Charge from the Ultra-thin SOI Films** — CRISTIAN R. RAVARIU
- 17:30 TuA3f.2 **First Principles Study of Self-Assembled Monolayers on Metal Surfaces** — YUJI SUWA
- 17:30 TuA3f.3 **Dielectric discontinuity at a twin boundary in Si(111)** — JUN NAKAMURA
- 17:30 TuA3f.4 **Surface strain induced by reconstruction on GaAs(001) surfaces characterized by reflectance modulated spectroscopies** — LUIS FELIPE LASTRAS-MARTINEZ
- 17:30 TuA3f.5 **Atomistic Model Structure of the Si(100)-SiO₂-HfO₂ Interface Generated by Ab Initio Molecular Dynamics** — PETER BROQVIST
- 17:30 TuA3f.6 **New insight in the metal-semiconductor interface formation: generation and removal of donor-like surface states on Cs/p-GaAs(001)** — VITALY L ALPEROVICH
- 17:30 TuA3f.7 **Core-Level Photoelectron Spectroscopy Probing Local Strain at Silicon Surfaces and Interfaces** — OLEG V. YAZYEV
- 17:30 TuA3f.8 **Atomic force microscope simulations on methyl-terminated Si(100)2x1 surfaces** — AKIRA MASAGO
- 17:30 TuA3f.9 **STS study of Fe monomers and multimers on InAs(110) surfaces** — TOMOHIRO MATSUI
- 17:30 TuA3f.10 **Electronic structure of 6H-SiC(11 $\bar{2}$ 0) surfaces** — MARCO BERTELLI
- 17:30 TuA3f.11 **A unified model for α_2 - β_2 -(2 × 4) reconstructed semiconductor surfaces based on first principles calculations** — FRANK GROSSE

- 17:30 TuA3f.12 **Growth of InAs(001): Atomistic Simulations including Strain** — HANNES GUHL
- 17:30 TuA3f.13 **Atomic structure and electronic properties of self-assembled dysprosium-silicide nanowires on Si(001)** — MARTINA WANKE

TuA3g: Growth, surfaces, and interfaces: Bulk growth and structural characterization

Tuesday 17:30–19:30; Poster

- 17:30 TuA3g.1 **In-segregation measurements by RHEED during growth: comparison between vicinal and nominal substrates**
— SANDRO MARTINI
- 17:30 TuA3g.2 **Theoretical comparison of nitrogen-doping effects on silicon crystal growth with oxygen-doping effects** — HIROYUKI KAGESHIMA
- 17:30 TuA3g.3 **The effect of Mn ions on the growth of cubic GaN** — EUNAE CHOI
- 17:30 TuA3g.4 **Monitoring quality of Cd_{1-x}Zn_xTe bulk crystals by x-ray diffraction** — ZDENĚK MATĚJ
- 17:30 TuA3g.5 **Annealing effect on the buffer layer of high-quality crystalline GaN** — WEI-CHOU HSU
- 17:30 TuA3g.6 **Surface-strain-induced hexagonal/cubic polymorphism in InGaN epitaxial growth** — YUUKI TAKEI
- 17:30 TuA3g.7 **Morphology and optical properties of porous GaAs layers** — NICOLAS DMITRUK
- 17:30 TuA3g.8 **TEM and HRXRD analysis of LP MOVPE grown InGaP/GaAs epilayers** — CLAUDIO PELOSI
- 17:30 TuA3g.9 **Enhancing the solubility of N in GaAs and InAs by surface kinetics** — HAZEM ABU-FARSAKH

TuA3h: Growth, surfaces, and interfaces: Interfaces

Tuesday 17:30–19:30; Poster

- 17:30 TuA3h.1 **Interface structure and shape of *rs*-PbTe quantum dots embedded in *zb*-CdTe: An ab initio study** — ROMAN LEITSMANN
- 17:30 TuA3h.2 **Composition Profile of MOVPE Grown InP/InGaAs/InP Quantum Well Structures Studied by Cross-Sectional Scanning Tunneling Microscopy** — ICHIRO YAMAKAWA
- 17:30 TuA3h.3 **Physical mechanisms responsible for the abruptness of the Si-SiO₂ interface**
— LEONIDAS TSETSERIS
- 17:30 TuA3h.4 **Behaviour of metal contacts on InN: aiming for a Schottky contact** — VICTOR T RANGEL-KUOPPA
- 17:30 TuA3h.5 **Motive forces of atom intermixing at metal/semiconductor interfaces** — TAKASHI NAKAYAMA
- 17:30 TuA3h.6 **New Analysis on the Interface Trap States at Schottky Contact** — MYUNGJIM JUN
- 17:30 TuA3h.7 **Magnetic and electrical characterization of Fe/InAs(001) Interfaces** — R PETERS

TuA3i: Heterostructures, quantum wells, superlattices: Electronic structure

Tuesday 17:30–19:30; Poster

- 17:30 TuA3i.1 **Role of nitrogen in photoluminescence up-conversion in GaInNP/GaAs heterostructures grown by molecular beam epitaxy** — IRINA A BUYANOVA
- 17:30 TuA3i.2 **Optically detected cyclotron resonance studies of InGaNAs quantum well structures** — DANIEL DAGNELUND
- 17:30 TuA3i.3 **Complementary media of the graphitic lattice** — KATSUYOSHI KOBAYASHI
- 17:30 TuA3i.4 **Miniband Effects in Short-period InGaAs/InP Superlattices** — YURY A PUSEP
- 17:30 TuA3i.5 **Spin splitting in SiGe/Si heterostructures** — MIKHAIL O. NESTOKLON
- 17:30 TuA3i.6 **Enhancement of electron effective mass and reduced mass in a dilute electron density regime** — SHINTARO NOMURA

- 17:30 TuA3i.7 **Band-edge alignment of SiGe heterostructures calculated with a 30 band k.p formalism** — MOUSTAFA EL KURDI
- 17:30 TuA3i.8 **The Electronic Structures of In-Rich InGaN Quantum Well** — PILKYUNG MOON
- 17:30 TuA3i.9 **Spurious solutions and boundary conditions in kp theory** — BENNY LASSEN
- 17:30 TuA3i.10 **Is there a metamagnetic transition in a 2d electron gas subject to an in-plane magnetic field?** — KEITH A BENEDICT
- 17:30 TuA3i.11 **Magnetization of tunneling coupled double-layer electron systems and double-layer quantum dots** — OLAF RÖSLER
- 17:30 TuA3i.12 **Interface influence on carrier confinement and tunneling in nanometer-scale Si-SiO₂ superlattices** — JAN-MARTIN WAGNER
- 17:30 TuA3i.13 **Hard X-ray Linear Dichroism: an element specific tool for electronic and structural characterization of semiconductors** — FABRICE WILHELM

TuA3j: Heterostructures, quantum wells, superlattices: Interband transitions, excitons and exciton condensation

Tuesday 17:30–19:30; Poster

- 17:30 TuA3j.1 **Increasing of the longitudinal exciton magnetic momentum due its movement** — VLADIMIR KOCHERESHKO
- 17:30 TuA3j.2 **Multielectron Processes in the Optics of Two-dimensional Excitons** — VLADIMIR KOCHERESHKO
- 17:30 TuA3j.3 **Influence of Valance Band Offset on Carrier lifetime and Lasing Threshold in Compressive-strained InGaAs Quantum Well Lasers grown on GaAs** — WATARU SUSAKI
- 17:30 TuA3j.4 **Photoluminescence of Mg_xZn_{1-x}O/ZnO quantum wells grown by pulsed laser deposition** — SUSANNE HEITSCH
- 17:30 TuA3j.5 **Spectroscopic characterization of 1.55 um GaInNAs(Sb) /GaNAs quantum-well structures grown by molecular-beam epitaxy** — HANDONG D SUN
- 17:30 TuA3j.6 **Quasi-1D type-II exciton in short period GaAs/AlAs (311)A corrugated superlattices: photoluminescence study** — VLADIMIR A VOLODIN
- 17:30 TuA3j.7 **Single particule excitations and interband recombination in very low density 2D electron gases** — BERNARD JUSSERAND
- 17:30 TuA3j.8 **Can exciton BEC be observed via multi-level PL kinetics?** — BORIS LAIKHTMAN
- 17:30 TuA3j.9 **Interaction between free excitons and 2DEG in modulation doped GaAs/AlGaAs heterojunctions** — YULIA PREEZANT
- 17:30 TuA3j.10 **Control of spectral and polarization characteristics in semimagnetic asymmetric double quantum wells** — SERGEY V. ZAITSEV
- 17:30 TuA3j.11 **Dephasing of excitons in ZnSe quantum wells using ultra-short excitation pulses** — HANS-PETER WAGNER
- 17:30 TuA3j.12 **Effect of an electric field on the photoluminescence kinetics of type II GaAs/AlAs superlattices** — DMITRY V. GULYAEV
- 17:30 TuA3j.13 **Observation of hot luminescence and slow intersubband relaxation in GaN/AlGaN multi-quantum-well structures** — EVA MONROY
- 17:30 TuA3j.14 **Photoluminescence and magneto-photoluminescence studies in GaInNAs/GaAs quantum wells** — JAIME SEGURA
- 17:30 TuA3j.15 **Delta-doped GaAs/AlAs multiple quantum wells: A study using optical and terahertz techniques** — GINTARAS VALUSIS
- 17:30 TuA3j.16 **Polariton superfluids under magnetic field** — YURI G. RUBO
- 17:30 TuA3j.17 **Transport in Electron-Hole Bilayers Fabricated Using Undoped GaAs-AlGaAs** — JOHN A SEAMONS
- 17:30 TuA3j.18 **Observation of very efficient cold exciton emission due to the first excited subband state in GaAs/Al_xGa_{1-x}As quantum wells** — KENZO FUJIWARA
- 17:30 TuA3j.19 **High Magnetic Field Study of Rare-earth Doped GaAs/AlAs Superlattices** — TADASHI TAKAMASU
- 17:30 TuA3j.20 **Shake-up replicas of excitons and trions in photoluminescence of two-dimensional holes in a high magnetic field** — LESZEK BRYJA

- 17:30 TuA3j.21 **Resonant photoluminescence spectroscopy of InGaN/GaN single quantum well structures** — DARREN M GRAHAM
- 17:30 TuA3j.22 **Propagation properties in high-density exciton polaritons** — TAKESHI J INAGAKI
- 17:30 TuA3j.23 **Influence of image charge effect on exciton fine structure in an organic-inorganic quantum well material** — YUKO ARAI
- 17:30 TuA3j.24 **The so-called “trion line”: A singular many body effect between one composite exciton and many electrons** — MONIQUE COMBESCOT
- 17:30 TuA3j.25 **High spin polarization of optically-oriented trions in *p*-doped GaAs-AlGaAs quantum wells** — KLAUS WAGENHUBER
- 17:30 TuA3j.26 **Magneto-absorption in quantum wells with in-plane electric fields** — BISWAJIT KARMAKAR
- 17:30 TuA3j.27 **Electron-Hole Liquid in Si/SiGe heterostructures** — TIMUR M. BURBAEV
- 17:30 TuA3j.28 **Polarization Dependence of Absorption and Photocurrent in QDIPs** — PATRÍCIA L. SOUZA
- 17:30 TuA3j.29 **Modification of InGaN Quantum Well Luminescence by Microstructured Buffer Layers** — YARGO C BONETTI
- 17:30 TuA3j.30 **Free versus Donor-bound Charged Excitons in Quantum Wells: Spectra of States and Optical Transitions in Magnetic Fields** — ALEXANDER DZYUBENKO
- 17:30 TuA3j.31 **Extraordinaire luminescence from an interlayer exciton complex in ZnSe/BeTe quantum structures** — HIROFUMI MINO

TuA3k: Heterostructures, quantum wells, superlattices: Nonlinear optical studies

Tuesday 17:30–19:30; Poster

- 17:30 TuA3k.1 **Degenerate Four Wave Mixing Spectroscopy of InGaN/GaN Multiple Quantum Wells** — DMYTRO O KUNDYS
- 17:30 TuA3k.2 **Enhancement of third-order nonlinear optical susceptibilities in single-walled carbon nanotubes** — MASAO ICHIDA
- 17:30 TuA3k.3 **Carrier transport and recombination in resonantly excited InGaAs/GaAs MQWs** — RAMUNAS ALEKSIEJUNAS
- 17:30 TuA3k.4 **Coherent Control of Non-Markovian interaction of Exciton-Folded Acoustic Phonon in GaAs Multiple Quantum Wells** — YOSHIHIRO OGAWA
- 17:30 TuA3k.5 **Enhanced quantum confined Pockels effect in graded SiGe superlattices** — BANG-FEN ZHU
- 17:30 TuA3k.6 **Selective generation of quantum beats of weakly confined excitons** — OSAMU KOJIMA
- 17:30 TuA3k.7 **Dynamic Wannier-Stark ladder driven by a pulse train with periodic repetition: removal of interminiband interactions and optical gain** — KEN-ICHI HINO

TuA3l: Heterostructures, quantum wells, superlattices: Carrier dynamics, relaxation

Tuesday 17:30–19:30; Poster

- 17:30 TuA3l.1 **Electron transport and optical properties of InGaAs/InP quantum well grown on patterned InP substrates** — JULIANA B. BORGES
- 17:30 TuA3l.2 **Transport anisotropy in high mobility In_{0.75}Ga_{0.25}As/ In_{0.75}Al_{0.25}As 2DEGs** — DANIELE ERCOLANI
- 17:30 TuA3l.3 **Non-perturbative theory of quantum lifetime in AlGaIn/GaN two-dimensional electron gases** — LEVON B HOVAKIMIAN
- 17:30 TuA3l.4 **Spin dynamics of type-II excitons in diluted magnetic double quantum wells** — TAKESHI KOYAMA
- 17:30 TuA3l.5 **Optical phonon instability induced by high-speed electron transport** — KOHELAP VYACHESLAV A
- 17:30 TuA3l.6 **Lasing Dynamics and Excitonic Transition in CdSe Colloidal Quantum Dots** — KWANGSEUK KYHM
- 17:30 TuA3l.7 **Control of exciton dynamics in GaAs resonant tunneling diodes** — FRANCISCO J TERAN
- 17:30 TuA3l.8 **Bright photoemission from interacting excitons at the interface localized sites in CdS/ZnSe type-II quantum structures** — KAZUO ONO

TuA3m: Heterostructures, quantum wells, superlattices: Intersubband transitions

Tuesday 17:30–19:30; Poster

- 17:30 TuA3m.1 **Two-color phase control of electron populations, absorption and dispersion in an asymmetric semiconductor quantum well** — EMMANUEL PASPALAKIS
- 17:30 TuA3m.2 **Magnetic field-induced selective reduction of energy relaxation paths in weakly coupled superlattices** — GUSTAVO S VIEIRA
- 17:30 TuA3m.3 **Quantum control of the dynamics of a semiconductor quantum well structure** — EMMANUEL PASPALAKIS
- 17:30 TuA3m.4 **Van Hove singularities in intersubband transitions in multiquantum well photodetectors** — JUDIKAËL LE ROUZO
- 17:30 TuA3m.5 **Two-electron intersubband absorption in quantum wells** — T. V. SHAHBZAYAN
- 17:30 TuA3m.6 **Intersubband relaxation dynamics in narrow InGaAs/AlAsSb quantum well structures studied by femtosecond pump-probe spectroscopy** — CHRISTIANA VILLAS-BOAS TRIBUZY
- 17:30 TuA3m.7 **Single-particle nature of intersubband electronic Raman scattering and dynamical many-body effects in narrow GaAs quantum wells** — TAKEYA UNUMA
- 17:30 TuA3m.8 **Ultrafast Intersubband Relaxation Dynamics and Coherent Nonlinearity in Bulk and Waveguide structures of GaN/AlN Multiple Quantum Wells** — KEITA IKUNO
- 17:30 TuA3m.9 **Intersubband emission and carrier dynamics in GaAs/AlGaAs tunnel-coupled quantum wells after ultrafast optical pumping** — VADIM YU. PANEVIN
- 17:30 TuA3m.10 **Plasma-assisted MBE growth of nitride-based intersubband detectors** — EVA MONROY
- 17:30 TuA3m.11 **Far-infrared magneto-transmission studies of polarons and bipolarons in InAs/GaAs quantum dots** — BEN A CARPENTER
- 17:30 TuA3m.12 **Resonant second-harmonic generation in GaN/AlN quantum wells at 1 μm wavelength.** — LAURENT NEVOU
- 17:30 TuA3m.13 **Quantum cascade electro-luminescent devices for intersubband polariton emission** — LUCA SAPIENZA

TuA3n: Physics in the QHE regime

Tuesday 17:30–19:30; Poster

- 17:30 TuA3n.1 **Pseudopotentials, Correlations, and Hierarchy Schemes in Quantum Hall Systems** — JOHN J. QUINN
- 17:30 TuA3n.2 **Evidence of a Macroscopic Electron Self-Ordering in an Asymmetric Quantum Hall System** — SERGEY A. EMELYANOV
- 17:30 TuA3n.3 **Interplay between the phonon and Coulomb-mediated drag in low-density bilayers** — SAMVEL MICHAEL BADALYAN
- 17:30 TuA3n.4 **Spin effects in the $n\text{-In}_x\text{Ga}_{1-x}\text{As}$ /GaAs double quantum well magnetoresistance under tilted magnetic fields** — MICHAEL V YAKUNIN
- 17:30 TuA3n.5 **Electrically detected magnetic resonance spectroscopy in a wide parabolic quantum well** — CLIFFORD R BOWERS
- 17:30 TuA3n.6 **Pairs and triplets of composite fermions in partially filled shells** — ARKADIUSZ WÓJS
- 17:30 TuA3n.7 **Effect of microwave multi-photon absorption on the magnetoresistivity of 2D electron systems** — JESUS INARREA
- 17:30 TuA3n.8 **Effects of In-plane Magnetic Fields on the Canted Antiferromagnetic Phase in the Bilayer $\nu = 2$ Quantum Hall State** — AKIRA FUKUDA
- 17:30 TuA3n.9 **Anomalous Hall Resistance in Bilayer Electron Systems** — ZYUN F. EZAWA
- 17:30 TuA3n.10 **Photon-counting microscopy of cyclotron emission in quantum Hall electron systems** — KENJI IKUSHIMA
- 17:30 TuA3n.11 **Anisotropy of Current-pumped Nuclear Spin Polarization in the $\nu = 2/3$ Quantum Hall State** — KAZUKI IWATA
- 17:30 TuA3n.12 **Two-subband quantum Hall effect in parabolic quantum wells** — CHRISTOPH ELLENBERGER

- 17:30 TuA3n.13 **Transport properties of 2D-electron gas in a n-InGaAs/GaAs DQW in a vicinity of low magnetic-field-induced Hall insulator–quantum Hall liquid transition** — YURI G ARAPOV
- 17:30 TuA3n.14 **Calculations of the THz conductivity of Quantum Hall Systems** — GABRIEL VASILE
- 17:30 TuA3n.15 **Quantum Hall ferromagnet at high filling factors: a magnetic-field-induced Stoner transition** — BENJAMIN A PIOT
- 17:30 TuA3n.16 **Simultaneous imaging of Terahertz radiation and voltage in quantum Hall conductors** — YUKIO KAWANO
- 17:30 TuA3n.17 **Charged excitons in fractional quantum Hall regime.** — MARCIN BYSZEWSKI
- 17:30 TuA3n.18 **Current filament model of the microwave induced zero-resistance state** — JOSEF OSWALD
- 17:30 TuA3n.19 **Anomalous Aharonov-Bohm-type effects in square arrays of antidots** — MASANORI KATO
- 17:30 TuA3n.20 **Hofstadter's butterfly energy diagram and the Hall conductance in Kagome lattice potential** — HIROYUKI TAMURA
- 17:30 TuA3n.21 **dc voltage transformer based on the $\nu_T=1$ state in bilayer electron systems** — RODNEY D. WIERSMA
- 17:30 TuA3n.22 **Imaging of Current Concentration in Sub-linear Width Dependent Quantum Hall Breakdown** — KENICHI OTO
- 17:30 TuA3n.23 **Tunneling and Coulomb Blockade in narrow hall bars of GaAs/AlGaAs heterostructure in the quantum hall regime** — OLIVIER COUTURAUD
- 17:30 TuA3n.24 **Spatial Variations of the Hall Potential and the Electron Temperature in Quantum Hall Systems with a Filling Factor Step** — HIROSHI AKERA
- 17:30 TuA3n.25 **Thermohydrodynamic Instability in Narrow Quantum Hall Systems in the Breakdown Regime** — HIROSHI AKERA
- 17:30 TuA3n.26 **Resistively-Detected NMR Studies of Quantum Hall Systems** — KATSUYOSHI KODERA
- 17:30 TuA3n.27 **Resistively-Detected NMR Studies of Quantum Hall Systems** — KATSUYOSHI KODERA
- 17:30 TuA3n.28 **Quantum Hall Skyrmions in a hole gas with large spin gap and strong disorder** — LESZEK BRYJA
- 17:30 TuA3n.29 **Cyclotron Resonance in 2D Electron Systems at Low Magnetic Field** — ANDREY P. CHEBOTAREV
- 17:30 TuA3n.30 **Reordering of the stripe and bubble phase in the presence of a DC current** — GERARDO GAMEZ
- 17:30 TuA3n.31 **Imaging Transport Resonances in the Quantum Hall Effect** — GARY A STEELE
- 17:30 TuA3n.32 **Tunable Landau level spin-anticrossings in (110) GaAs two-dimensional hole systems** — SEBASTIAN F ROTH
- 17:30 TuA3n.33 **Composite Fermion Hierarchical States in Rotating Dipolar Fermi Gases** — PIOTR SITKO
- 17:30 TuA3n.34 **Hall potential profiles and adiabatic transport** — FRANCK DAHLEM
- 17:30 TuA3n.35 **Quantum Hall Effect in Bilayer System with Array of Antidots** — GUENNADH M GUSEV

TuA3o: Nanostructures: one- and zero-dimensional systems: Optical studies: wires

Tuesday 17:30–19:30; Poster

- 17:30 TuA3o.1 **Spatial localization of an optical near field dressed by coherent phonons** — YUJI TANAKA
- 17:30 TuA3o.2 **Current-injection lasing in T-shaped GaAs/AlGaAs quantum-wire lasers** — SHU-MAN LIU
- 17:30 TuA3o.3 **Band-edge divergence and Fermi-edge singularity in an n-type doped T-shaped quantum wire** — TOSHIYUKI IHARA
- 17:30 TuA3o.4 **Raman Study of InAs/InP self-assembled quantum wires** — TODORA I ANGELOVA
- 17:30 TuA3o.5 **Temperature Dependence of Intersubband Absorption in Modulation-Doped V-Shaped Quantum Wires** — JASNA V. CRNJANSKI

- 17:30 TuA3o.6 **Optical properties of quantum dots in nanowires** — UMBERTO PERINETTI
- 17:30 TuA3o.7 **Raman Scattering in GaN/AlN Multiple Quantum Disk Nanocolumns** — TOMOYUKI SEKINE
- 17:30 TuA3o.8 **Comparison of Charge Confinement in InAs/InP Quantum Wires and Wells** — JOCHEN MAES

TuA3p: Nanostructures: one- and zero-dimensional systems: Optical studies: dots and dot molecules

Tuesday 17:30–19:30; Poster

- 17:30 TuA3p.1 **Strain induced modifications of optoelectronic properties of PbSe nanostructures** — MATHIAS SIMMA
- 17:30 TuA3p.2 **Collective and Individual Emissions for InGaAs Quantum Dots in Photonic Crystal Nanocavity** — WEN-YEN CHEN
- 17:30 TuA3p.3 **Optical properties of exciton charge states in InGaAs quantum dots grown by metalorganic chemical vapor deposition** — HSIANG-SZU CHANG
- 17:30 TuA3p.4 **The influence of surface phonons to the polaron states in quantum dot.** — ALEXANDER YU. MASLOV
- 17:30 TuA3p.5 **Order- N electronic structure calculation of n -type GaAs quantum dots** — SHINTARO NOMURA
- 17:30 TuA3p.6 **Foerster-Type Resonance Energy Transfer in Polymer-Stabilized Colloidal CdS Quantum Dots Coupled to Dye-Labeled Proteins** — AKIRA SUGIMURA
- 17:30 TuA3p.7 **Comparison of carrier lifetime and excited state for In(Ga)As quantum dots in the quaternary barriers on InP substrate** — JAEGYU PARK
- 17:30 TuA3p.8 **A theoretical and experimental study of $\lambda > 2\mu\text{m}$ photoluminescence of quantum dots on InP substrate** — JACKY EVEN
- 17:30 TuA3p.9 **Magnetic polaron formation in CdMnTe self assembled quantum dots** — PIOTR WOJNAR
- 17:30 TuA3p.10 **Ge(Si) self-assembled islands embedded in a tensile-strained Si layer: growth and photoluminescence** — ALEXEY V. NOVIKOV
- 17:30 TuA3p.11 **Fine structure of electron-hole complexes in single semimagnetic quantum dots** — ALEXANDER V CHERNENKO
- 17:30 TuA3p.12 **Near-field magneto-optics of quantum dots** — ANNA ZORA
- 17:30 TuA3p.13 **Raman scattering study of bio-conjugated core-shell CdSe/ZnS quantum dots** — T. V. TORCHYNSKA
- 17:30 TuA3p.14 **Microphotoluminescence study of single and multilayered structure with GaN/AlN quantum dots** — KONSTANTIN S. ZHURAVLEV
- 17:30 TuA3p.15 **Effect of surface oxidation on optical absorption of silicon nanocrystallites** — IKUROU UMEZU
- 17:30 TuA3p.16 **InN/GaN quantum dots: Electronic and optical properties** — STEFAN SCHULZ
- 17:30 TuA3p.17 **Rough InAs/GaAs Quantum Dots** — MARILZA G. BEZERRA
- 17:30 TuA3p.18 **Long-wavelength emitters based on In(Ga)AsN/GaAsN quantum wells and quantum dots** — FAUSTINO MARTELLI
- 17:30 TuA3p.19 **Optical detection of lateral potential modulation and electron accumulation in undoped GaAs quantum well with electric gates** — MASUMI YAMAGUCHI
- 17:30 TuA3p.20 **Electron states and magnetophotoluminescence of elongated InAs/GaAs quantum dots** — VLASTIMIL KRÁPEK
- 17:30 TuA3p.21 **Delocalized electron states in quantum dot molecules** — TWAN VAN LIPPEN
- 17:30 TuA3p.22 **Excitonic Fock-Darwin spectrum of a single InAs/GaAs quantum dot** — ADAM BABINSKI
- 17:30 TuA3p.23 **Magneto-photoluminescence of InSb/InAs quantum dots as a function of excitation power density** — OLGA G. LYUBLINSKAYA
- 17:30 TuA3p.24 **Low-density quantum dots embedded in photonic crystal nanocavities for single-photon generations** — WEN-HAO CHANG
- 17:30 TuA3p.25 **Electro-optical states characterization of self-assembled InAs/GaAs Quantum Rings.** — ALFONSO G TABOADA

- 17:30 TuA3p.26 **Electronic Raman Scattering in InAs/AlAs Quantum Dot Structures** — ALEXANDER G. MILEKHIN
- 17:30 TuA3p.27 **Resonant emission of single InAs/GaAs quantum dots in a waveguiding configuration** — ROMAIN MELET
- 17:30 TuA3p.28 **Phonon-induced Exciton Relaxation and pure Dephasing in Quantum Dots and Quantum Dot Molecules** — EGOR A. MULJAROV
- 17:30 TuA3p.29 **Superconducting Single Photon Detectors for Optical Measurements on Quantum Dots** — ELISABETH REIGER
- 17:30 TuA3p.30 **Magnetic and electric field-controlled coupling in quantum ring molecules** — LUIS G. DIAS DA SILVA
- 17:30 TuA3p.31 **Temperature dependence of the exciton homogeneous linewidth in CdTe and CdSe self-assembled quantum dots: limit of single photon source operation** — KUNTHEAK KHENG
- 17:30 TuA3p.32 **Ex-situ control of fine-structure splitting and excitonic binding energies in single InAs/GaAs quantum dots** — ROBERT SEGUIN
- 17:30 TuA3p.33 **Multi-Electronic Structures in GaAs Quantum Dots** — FUJIO MINAMI
- 17:30 TuA3p.34 **Influence of carrier-carrier and carrier-phonon correlations on optical absorption and gain in quantum-dot systems** — MICHAEL LORKE
- 17:30 TuA3p.35 **Disorder-induced energy shifts of magnetoexcitons in semiconductor heterostructures** — MATTHIAS ERDMANN
- 17:30 TuA3p.36 **Thermal and optical manipulation of hole occupancy in type-II self-assembled GaSb/GaAs quantum dots** — BHAVTOSH BANSAL
- 17:30 TuA3p.37 **Resonant Raman scattering in CdSe self-assembled quantum dots** — J. S. REPARAZ
- 17:30 TuA3p.38 **Polarization sensitive spectroscopy of the excitonic fine structure of negatively charged excitons in Single Quantum Dots** — EILON POEM
- 17:30 TuA3p.39 **Electronic structure of the dilute nitrogen quantum dots** — STANKO S TOMIC
- 17:30 TuA3p.40 **Single dot spectroscopy investigations of carrier transport and capture into InAs/GaAs quantum dots** — MATS LARSSON
- 17:30 TuA3p.41 **Modified carriers transport and capture into InAs/GaAs quantum dots due to an applied magnetic field** — MATS LARSSON
- 17:30 TuA3p.42 **Anti-Stokes photoluminescence and resonant Raman scattering from InSb quantum dots and nanowires** — NOBORU WADA
- 17:30 TuA3p.43 **Control of the exciton recombination time of type-II quantum dots coupled to a type-I quantum well** — MARCIO PERON FRANCO DE GODOY
- 17:30 TuA3p.44 **Tuning the InAs/GaAs quantum dot charge state by pure optical means** — MATS LARSSON
- 17:30 TuA3p.45 **Exciton Aharonov-Bohm Effect in Embedded Nanostructures** — MICHAL GROCHOL
- 17:30 TuA3p.46 **Temperature-dependent optical properties of CdSe/ZnSe quantum dots grown on GaAs and Si/Ge virtual substrates** — EVGENY E. ONISHCHENKO
- 17:30 TuA3p.47 **Dependence of exciton energy on dot height in GaN/AlN quantum dots** — EOIN P O REILLY
- 17:30 TuA3p.48 **The Diffusion Driven Capture of Carriers in Quantum Dots Formed in type II GaAs/AlAs Quantum Well Structure** — BARBARA CHWALISZ-PIETKA
- 17:30 TuA3p.49 **Carrier dynamics of electrons in n-type modulation-doped InAs/GaAs quantum dot structure studied using THz time-domain spectroscopy** — SEUNG JAE OH
- 17:30 TuA3p.50 **In-plane absorption spectroscopy at room temperature of Stranski-Krastanov quantum dots emitting at 1.3 micron** — GIUSEPPE VISIMBERGA
- 17:30 TuA3p.51 **Effect of carrier migration on the photoluminescence of CdTe/ZnTe quantum-dot superlattices** — EVGENY E. ONISHCHENKO
- 17:30 TuA3p.52 **Resonant Raman scattering on optical phonons confined in spherical semiconductor nanocrystals: ODP interaction and polaron effects** — A. G. ROLO
- 17:30 TuA3p.53 **Micro-photoluminescence of isolated hexagonal GaN/AlN quantum dots : role of the electron-hole dipole** — RICHARD BARDOUX

- 17:30 TuA3p.54 **Photoluminescent Properties of InAs Quantum Dots Grown by MOVPE on an In_xAl_yGa_{1-x-y}As Layer and their Dependence on the Layer Stoichiometry** — JULIO G. MENDOZA-ALVAREZ
- 17:30 TuA3p.55 **Electron and Hole Confinement Localization in InP / GaAs type II Quantum Dots** — PAULO F GOMES
- 17:30 TuA3p.56 **Optical state engineering in charged quantum dot molecules** — JOSE M VILLAS-BOAS
- 17:30 TuA3p.57 **Electron-Hole Separation of Zero-Dimensional Excitons in A Single Self-Organized InAs Quantum Dot Studied Under Normal and In-Plane Electric Fields** — MASATO OHMORI
- 17:30 TuA3p.58 **Observation of modulation of PL intensity in self assembled quantum rings under strong pulsed magnetic fields.** — TABOADA G. ALFONSO

TuA3q: Nanostructures: one- and zero-dimensional systems: Nanotubes

Tuesday 17:30–19:30; Poster

- 17:30 TuA3q.1 **Carbon nanotubes as terahertz emitters and detectors** — OLEG V KIBIS
- 17:30 TuA3q.2 **Engineering of Carbon-Nanotube Band Structure through Bending** — SEUNG-WON LEE
- 17:30 TuA3q.3 **Yield and quality optimisation for MWNTs prepared by catalytic CVD** — S. SANTANGELO
- 17:30 TuA3q.4 **Optical and structural properties of III-V rolled-up nano- and microtubes** — HENDRIK PAETZELT
- 17:30 TuA3q.5 **Zitterbewegung of electrons and holes in carbon nanotubes** — WLODEK ZAWADZKI
- 17:30 TuA3q.6 **Encapsulation of metallocenes in single-wall carbon nanotubes: an ab initio study** — SOLANGE BINOTTO FAGAN
- 17:30 TuA3q.7 **Twisting the energy gap of a carbon Möbius nanostrip** — EWERTON W. S. CAETANO
- 17:30 TuA3q.8 **Dynamical response of perfect conducting channel in carbon nanotubes** — YOICHI ASADA
- 17:30 TuA3q.9 **Electronic states of single-walled carbon nanotubes with substitutional impurities.** — KOICHI INOUE
- 17:30 TuA3q.10 **Prominent exciton absorption of perpendicularly polarized light in carbon nanotubes** — SEIJI URYU
- 17:30 TuA3q.11 **Strong inter-tube coupling induced by disorder in double-wall carbon nanotubes** — SEIJI URYU
- 17:30 TuA3q.12 **Magnetic field effects and geometrical aspects on double walled carbon nanotubes** — ANDREA LATGE
- 17:30 TuA3q.13 **Strain-induced localization in metallic carbon nanotubes** — HIDEKATSU SUZUURA
- 17:30 TuA3q.14 **Stimulated Raman scattering of single-wall carbon nanotubes** — B.P. ZHANG
- 17:30 TuA3q.15 **Spin injection to single-walled carbon nanotubes through thin tunnel barriers** — YASUhide OHNO
- 17:30 TuA3q.16 **Edge-Contact Carbon Nanotube Field-Effect Transistors with No Hysteresis Characteristics** — KOHEI NISHIGUCHI
- 17:30 TuA3q.17 **Fabrication and transport property of artificial structure of CNTs using SPM nano-manipulation** — YUICHI OCHIAI
- 17:30 TuA3q.18 **Defects and charge transport in carbon nanotubes** — ANTÔNIO J. R. DA SILVA
- 17:30 TuA3q.19 **Electron-phonon effects on the transport through a carbon nanotube with a side-coupled molecule** — SERGIO SAUL MAKLER
- 17:30 TuA3q.20 **Optical properties of carbon nanotubes: a first-principles study** — DEBORAH PREZZI
- 17:30 TuA3q.21 **Carbon Nanotube Based Transistors: A Computational Study** — MAHDI POUR-FATH
- 17:30 TuA3q.22 **Terahertz electrical and optical properties of doublewalled carbon nanotubes** — IN HEE MAENG
- 17:30 TuA3q.23 **The role of topological defects on the electronic transport of carbon nanotube junctions under external fields** — LUIS ROSALES
- 17:30 TuA3q.24 **Phonon-drag thermopower of ballistic semiconducting single-wall carbon nanotubes** — KONSTANTINOS PAPANAGELIS

- 17:30 TuA3q.25 **Band structure changes in carbon nanotubes caused by MnTe crystal encapsulation** — LAIN-JONG LI
- 17:30 TuA3q.26 **Purification of Single-walled Carbon Nanotubes Probed by Raman Spectroscopy and High Resolution Transmission Electronic Microscopy** — JOSÉ M ROSOLEN
- 17:30 TuA3q.27 **Study of environmental effects on the optical properties of single-wall carbon nanotubes** — ADELINA P SANTOS
- 17:30 TuA3q.28 **Band structure of carbon nanotubes probed by magnetic field** — GEORGY FEDOROV

TuA3r: Semiconductor Spintronics: Magnetic and semimagnetic semiconductors

Tuesday 17:30–19:30; Poster

- 17:30 TuA3r.1 **The magnetotransport properties of Co-doped ZnO films** — QINGYU XU
- 17:30 TuA3r.2 **Anomalous Hall effect in a two-dimensional electron system: unified analysis of side-jump and skew scattering mechanisms** — S. Y. LIU
- 17:30 TuA3r.3 **Photoluminescence and tunneling of direct and indirect excitons of semimagnetic asymmetric double quantum wells CdSe/CdMgSe/CdMnSe** — IRINA I. RESHINA
- 17:30 TuA3r.4 **ZnO:Mn - DMS growth and characterization** — EKATERINA CHIKOIDZE
- 17:30 TuA3r.5 **High-energy spectroscopic study of Mn-doped GaN prepared by thermal diffusion of Mn** — JONG-IL HWANG
- 17:30 TuA3r.6 **Structure investigation of ferromagnetic GaMnAs layers by x-ray standing wave methods** — VÁCLAV HOLÝ
- 17:30 TuA3r.7 **Low temperature transport properties in ferromagnetic GaMnAs films** — HONG-TAO HE
- 17:30 TuA3r.8 **Theoretical Study of Magnetic Properties of VN, CrN, MnN, FeN, and CoN under strain** — LUISA M.R. SCOLFARO
- 17:30 TuA3r.9 **Local environment effects on exchange interactions and Curie temperatures in dilute magnetic semiconductors** — KAZUNORI SATO
- 17:30 TuA3r.10 **Effects of spinodal decomposition on ferromagnetism in dilute magnetic semiconductors** — TETSUYA FUKUSHIMA
- 17:30 TuA3r.11 **Size dependence of the Mn 3d⁵ luminescence decay in wire-like arrangements of (Zn,Mn)S nanoparticles** — WOLFRAM HEIMBRODT
- 17:30 TuA3r.12 **Ab initio study of GaN/Mn_xGa_{1-x}N digital heterostructure** — MARCELO MARQUES
- 17:30 TuA3r.13 **Above room temperature ferromagnetism in Mn-ion implanted Si_{0.75}Ge_{0.25}** — KIELEONG TEO
- 17:30 TuA3r.14 **Ferromagnetic Ordering and Extraordinary Hall Effect in Epitaxial Cobalt-doped Germanium** — VILOANE KO
- 17:30 TuA3r.15 **Spin interaction in diluted magnetic semiconductor dots** — KAI CHANG
- 17:30 TuA3r.16 **Origin of room-temperature ferromagnetism in Cr-As compound** — JIANHUA ZHAO
- 17:30 TuA3r.17 **Optical spectroscopy on metastable zincblende MnS/ZnSe heterostructures** — LIMEI CHEN
- 17:30 TuA3r.18 **Kerr rotation and magnetic circular dichroism in ferromagnetic InMnSb and InMnAs** — HEINZ KRENN
- 17:30 TuA3r.19 **Magnetic domain structure of GaMnAs films with perpendicular anisotropy** — ARISTIDE LEMAITRE
- 17:30 TuA3r.20 **Hot-electron photoluminescence of para- and ferromagnetic (Ga,Mn)As layers** — VICTOR F. SAPEGA
- 17:30 TuA3r.21 **Magnetic properties of Ge_{1-x-y}Mn_xEu_yTe mixed crystals** — WITOLD DOBROWOLSKI
- 17:30 TuA3r.22 **The effect of annealing on magnetic properties of Ge_{1-x}Mn_xTe thin films grown by molecular-beam epitaxy** — KIELEONG TEO
- 17:30 TuA3r.23 **First-Principles calculation under carrier doping treatment in CuAlO₂ based dilute magnetic semiconductor** — HIDETOSHI KIZAKI

- 17:30 TuA3r.24 **Correlation Between Electric Structure and Magnetism in Mn doped GaN films** — SAKI SONODA
- 17:30 TuA3r.25 **Magnetotranport and Antiferromagnetic Behavior in ErP Epitaxial Layers on GaInP(001)** — A. NAKAMURA
- 17:30 TuA3r.26 **Tuning the hole density of $Ga_{1-x}Mn_xAs$ by hydrogenation** — ARISTIDE LEMAÎTRE
- 17:30 TuA3r.27 **Photoluminescence of "dark" excitons in CdMnTe quantum well embedded in a microcavity** — ADALBERTO BRUNETTI
- 17:30 TuA3r.28 **High resolution spin-flip Raman scatterings in CdZnTe/ CdZnMnTe quantum wells at 3He Temperatures** — KIYOFUMI MURO
- 17:30 TuA3r.29 **Remanence and Interdiffusion in Ultrathin Antiferromagnetic Semiconductor Epilayers** — WALTER SOELLINGER
- 17:30 TuA3r.30 **Laser Control of Magnetization of bulk (Zn,Mn)Te** — LE VAN KHOI
- 17:30 TuA3r.31 **Magnetoresistance effects in GaMnAs (001) and (311) layers** — URSULA WURST-BAUER
- 17:30 TuA3r.32 **Optical emissions from III-V Diluted Magnetic Semiconductor Systems** — GUILHERME M SIPAHI
- 17:30 TuA3r.33 **Magnetic domain patterns in as-grown and annealed GaMnAs epilayers with perpendicular easy axis** — CATHERINE GOURDON
- 17:30 TuA3r.34 **Exchange interaction effects on the optical properties of $Eu_xPb_{1-x}Te$** — ANDRE B HENRIQUES
- 17:30 TuA3r.35 **Ferromagnetic resonance study of ultra-thin GaMnAs films as a function of layer thickness** — Y. Y. ZHOU
- 17:30 TuA3r.36 **Studies of intrinsic exchange interactions in Zn(Mn)O, Zn(Mn)S and Zn(Mn)Te at 4 kbar by inelastic neutron scattering.** — ZACHARY WIREN
- 17:30 TuA3r.37 **Formation and characterization of As^+ -implanted p-type $(Zn_{1-x}Mn_x)O$ diluted magnetic semiconductor thin films** — SEJOON LEE
- 17:30 TuA3r.38 **Fabrication and characterization of n-type modulation-doped (Cd,Cr)Te quantum wells** — FUMIYOSHI TAKANO
- 17:30 TuA3r.39 **Carrier Dynamics and Magnetization-induced Nonlinearity in Ferromagnetic GaMnAs** — JI-HEE KIM
- 17:30 TuA3r.40 **Anisotropic Magnetic-Field Evolution of Valence-Band States in One-Dimensional Diluted Magnetic Semiconductors** — YUKIHIRO HARADA
- 17:30 TuA3r.41 **Single Particle Parameters of a Spin Polarized Electron Gas in CdMnTe Quantum Wells: Comparison between Raman Scattering and Photoluminescence** — CYNTHIA AKU-LEH
- 17:30 TuA3r.42 **Co-Doped TiO_2 Rutile Films on Al_2O_3 (0001)** — WILLIAM R BRANFORD
- 17:30 TuA3r.43 **Inter-wire antiferromagnetic exchange interaction in Ni/Si-ferromagnetic/semiconductor nanocomposites** — KLEMENS RUMPF
- 17:30 TuA3r.44 **Energy Transport Between Hole Gas and Crystal Lattice in Diluted Magnetic Semiconductor** — JANI M KIVIOJA
- 17:30 TuA3r.45 **Room temperature magneto-optics of ferromagnetic ZnO doped with transition metals and aluminium** — A MARK FOX
- 17:30 TuA3r.46 **Diluted Magnetic III-V Semiconductors with Mn for Possible Spintronic Applications** — MARIA KAMIŃSKA
- 17:30 TuA3r.47 **Evidence for substitutional Mn in MBE-grown GaMnN: 1.42 eV PL and TEM studies.** — JAN ZENNECK
- 17:30 TuA3r.48 **STM-study of the atomic structure of the (110) surface of Mn-doped cubic GaN** — JENS K. GARLEFF
- 17:30 TuA3r.49 **Optical properties of (Mn,Ga)As and (Be,Ga)As** — C. S. LEE
- 17:30 TuA3r.50 **Influence of intermetallic precipitates on the magnetic properties of GeMn** — STEFAN AHLERS
- 17:30 TuA3r.51 **Magnetophotoluminescence and ultrafast spectroscopy on GaAs quantum wells close to a GaMnAs layer** — ROBERT SCHULZ
- 17:30 TuA3r.52 **Formation of epitaxial MnSb and MnBi layers on GaMnAs** — JANUSZ KANSKI
- 17:30 TuA3r.53 **Infrared Magneto-Optical Studies in $Ga_{1-x}Mn_xAs$ Films** — JOHN CÉRNE

- 17:30 TuA3r.54 **GaN:Fe and (Ga,Fe)N:Mg: growth, characterization and magnetic properties** — ALBERTA BONANNI
- 17:30 TuA3r.55 **GaMnAs annealing under various conditions: air vs. As cap** — KAMIL OLEJNÍK
- 17:30 TuA3r.56 **Optical Studies of Transition Metal Doped GaN Thin Films grown by Metalorganic Chemical Vapor Deposition** — MATTHEW H KANE
- 17:30 TuA3r.57 **Anisotropic Magnetoresistance: from tunnel junctions to Coulomb Blockade** — J. FERNANDEZ-ROSSIER
- 17:30 TuA3r.58 **Magnetic cluster phases of Mn-interstitial-free (Ga,Mn)As** — Y. J. CHO
- 17:30 TuA3r.59 **Magnetotunnelling spectroscopy of Mn interstitial donors in GaMnAs/GaAs devices** — OLEG MAKAROVSKY
- 17:30 TuA3r.60 **Photon induced exchange interactions in semiconductor microcavities with finite quality factors** — ENRIQUE V. ANDA
- 17:30 TuA3r.61 **Theoretical Model of Magnetoexcitons in $Zn_{1-x}Co_xO$** — WITOLD BARDYSZEWSKI
- 17:30 TuA3r.62 **A new superparamagnetic phase in strained and unstrained heteroepitaxial EuSe above the critical temperature** — RAINER T. LECHNER
- 17:30 TuA3r.63 **Magnetic resonance as a tool to investigate the composition, shape, and orientation of precipitates in "ferromagnetic" semiconductors** — H. PRZYBYLINSKA

TuA3s: Semiconductor Spintronics: Spin injection and spin transport

Tuesday 17:30–19:30; Poster

- 17:30 TuA3s.1 **Effects of spin-dependent tunneling in III-V semiconductor heterostructures** — IRINA N. YASSIEVICH
- 17:30 TuA3s.2 **The conductance of the quantum wire touching the gated Aharonov-Bohm ring** — IVAN A SHEL'YKH
- 17:30 TuA3s.3 **Annealing-induced structural transition from $Ga_{1-x}Mn_xAs$ alloys to GaAs:Mn/MnAs hybrids probed by magneto-transport and ferromagnetic resonance** — CHRISTOPH MICHEL
- 17:30 TuA3s.4 **Spin-Hall effect in semiconductor heterostructures with weak cubic Rashba spin-orbit interaction** — OLAF BLEIBAUM
- 17:30 TuA3s.5 **Thermobalistic Description of Spin-Polarized Electron Transport in Diluted-Magnetic-Semiconductor Heterostructures** — U. WILLE
- 17:30 TuA3s.6 **Theory of spin transport across domain-walls in (Ga,Mn)As** — RAFAL OSZWAŁDOWSKI
- 17:30 TuA3s.7 **Spin detection of ballistic electrons injected from scanning-tunneling-microscope** — MAKOTO SAKURAI
- 17:30 TuA3s.8 **Prospects for using Andreev Spectroscopy to detect Spin Accumulation in Semiconductors** — FRIDRIK MAGNUS
- 17:30 TuA3s.9 **Electrical spin injection in light emitting Schottky diodes based on InGaAs/GaAs QW heterostructures** — NIKOLAY V BAIIDUS
- 17:30 TuA3s.10 **Spin-filter capabilities of an indirect double-barrier structure** — TITUS SANDU
- 17:30 TuA3s.11 **Drastic Magnetoresistance Enhancement on Spin-Dependent-Transport and Appearance of Spin-Glass-like Behavior for Magnetite Nanoparticle Sinter calcined at Low Temperature** — HIROMI KOBORI
- 17:30 TuA3s.12 **Mesoscopic Hall effect driven by chiral spin order** — JUN-ICHIRO OHE
- 17:30 TuA3s.13 **Spin Hall current induced by acceleration of electrons** — MASAYUKI YAMAMOTO
- 17:30 TuA3s.14 **Current-Induced Spin Polarization in Semimagnetic Semiconductor Structures** — ANDRIY I SAVCHUK
- 17:30 TuA3s.15 **Spin transport in ferromagnet/semiconductor nanostructures on a cleaved InAs/InGaAs heterostructure** — ANDREAS WITTMANN
- 17:30 TuA3s.16 **Optical Spin Current Injection and Manipulation in Semiconductors: Infrared Absorption and Raman Scattering Processes** — JOHN E. SIPE
- 17:30 TuA3s.17 **Spin and Charge Transport Properties in Quasi-One Dimensional Anomalous Hall System** — KATSUNORI WAKABAYASHI
- 17:30 TuA3s.18 **Spin-splitting characterization of an InGaSb 2DEG by using magnetoresistance measurements with tilted magnetic fields** — MASASHI AKABORI

- 17:30 TuA3s.19 **Long-range spin transport in (110) GaAs Quantum Wells** — ODILON D. D. COUTO
- 17:30 TuA3s.20 **Spin Injection in InAsSb quantum well LEDs with ferromagnetic metal injectors** — BEN N MURDIN
- 17:30 TuA3s.21 **Spin resolved quantum transport along [110] III-V heterostructures** — ERASMO A DE ANDRADA E SILVA
- 17:30 TuA3s.22 **Hole Spin Polarization in symmetric and asymmetric p-type GaAs/AlAs Resonant Tunneling Diodes** — HUGO BONETTE DE CARVALHO
- 17:30 TuA3s.23 **Evidence of Hole Spin-polarized Current through a non-magnetic Resonant Tunneling Diode** — HUGO BONETTE DE CARVALHO
- 17:30 TuA3s.24 **Cyclotron (or InterLandau-level) resonances in the circular polarization of light emitted from Fe/InAs Quantum-dot-based spin LEDs** — MESUT YASAR
- 17:30 TuA3s.25 **Spin precession and alternating spin polarization in spin-3/2 hole systems** — DIMITRIE CULCER

WeM1-WeM4: Plenary Lectures

Wednesday 9:00–12:30; Festsaal; Chair: G. Abstreiter (WeM1, WeM2), K. von Klitzing (WeM3, WeM4)

- 9:00 WeM1.1 **Photonic Crystals for Manipulation of Photons** — SUSUMU NODA
(Plenary talk)
- 9:45 WeM2.1 **Frontiers in Nanotechnology and Devices** — GEORGE BOURIANOFF
(Plenary talk)
- 10:30 **Break**
- 11:00 WeM3.1 **Probing and manipulating spin effects in vertical quantum dots** — SEIGO TARUCHA
(Plenary talk)
- 11:45 WeM4.1 **Progress in Spin-based Quantum Bits** — CHARLES M MARCUS
(Plenary talk)

WeA1a: Quantum Dots: Optical Studies, Carrier Dynamics and Decoherence

Wednesday 14:00–16:00; Festsaal; Chair: A. Zrenner

- 14:00 WeA1a.1 **Mid-infrared polaron laser with InAs/GaAs self-assembled quantum dots** — SÉBASTIEN SAUVAGE
- 14:15 WeA1a.2 **Intersublevel dephasing of polarons in n-type InAs quantum dots** — EVGENY A ZIBIK
- 14:30 WeA1a.3 **Magneto-optical interband transitions in semiconductor quantum dots : evidence for excitonic polarons** — VANESSA M PREISLER
- 14:45 WeA1a.4 **Bipolar charging in quantum dot arrays** — ARTEM V SAVELYEV
- 15:00 WeA1a.5 **Combined influence of Coulomb, exchange and phonon couplings on the line-shape of quantum dot spectra** — ANNETTE KRÜGEL
- 15:15 WeA1a.6 **Control of Acoustic-phonon-induced Electron Relaxation in Quantum Dots: The Role of the Piezoelectric Field** — JUAN IGNACIO CLIMENTE
- 15:30 WeA1a.7 **Motional narrowing in a semiconductor quantum dot** — GUILLAUME CASSABOIS
(Invited talk)

WeA1b: Electronic Structure of Dots & Transport II

Wednesday 14:00–16:00; Zeremoniensaal; Chair: P. Hawrylak

- 14:00 WeA1b.1 **Imaging correlated wave functions of few-electron quantum dots: Theory and STS experiments** — MASSIMO RONTANI
(Invited talk)
- 14:30 WeA1b.2 **Theory of Self-Assembled InGaAs/GaAs Quantum-Dots: Excitons, Multi-Excitons, Charged Excitons, and Entangled Excitons in self-assembled Quantum Dot-Molecules** — ALEX ZUNGER
- 14:45 WeA1b.3 **Tunnelling Transient Spectroscopy on self-assembled InAs Quantum Dots** — ANDREAS SCHRAMM
- 15:00 WeA1b.4 **Non-local spin control in a double quantum dot-quantum wire coupled system** — SATOSHI SASAKI

- 15:15 WeA1b.5 **Orbital and Spin Effects in Single- and Double-Quantum Dots Defined in InAs/InP Nanowire Heterostructures** — ANDREAS FUHRER
- 15:30 WeA1b.6 **Pseudo-spin Kondo effect in Aharonov-Bohm interferometer containing laterally coupled double quantum dots** — TOSHIHIRO KUBO
- 15:45 WeA1b.7 **Resonant scattering between self-assembled InAs quantum dots and a two-dimensional electron gas** — CEDRIK MEIER

WeA1c: Quantum Information Processing II

Wednesday 14:00–16:00; Gartensaal; Chair: C. Tejedor

- 14:00 WeA1c.1 **Quantum control of donor-bound electrons at the Si-SiO₂ interface** — BELITA KOILLER
- 14:15 WeA1c.2 **Stark Tuning of Donor Electron Spins in Silicon** — FORREST R BRADBURY
- 14:30 WeA1c.3 **Applications of Single Photons from a Single Quantum Dot in Quantum Information** — MATTHIAS SCHOLZ
- 14:45 WeA1c.4 **A quantum device interfacing photons and spins for quantum repeaters** — HIDEO KOSAKA
- 15:00 WeA1c.5 **Spin qubits in quantum dots: Review and Outlook** — DANIEL LOSS
(*Invited talk*)
- 15:30 WeA1c.6 **Si-based two-electron Coulomb blockade devices for spin qubit gates** — JUNG B CHOI
- 15:45 WeA1c.7 **Relaxation of Donor Nuclear Spins in Silicon** — STEPHEN A. LYON

WeA1d: Magnetic Nanostructures and Spin Injection

Wednesday 14:00–16:00; Rittersaal; Chair: J. Kossut

- 14:00 WeA1d.1 **Fe adatoms along Bi nanolines on H/Si(001): Patterning atomic magnetic chains** — WALTER ORELLANA
- 14:15 WeA1d.2 **Detection of Magnetic Domain Wall in a Permalloy Wire using a Semiconductor and Ferromagnetic Hybrid Structure** — YOSHIKI SEKINE
- 14:30 WeA1d.3 **Imaging electrical spin injection and accumulation in lateral ferromagnet/semiconductor devices** — SCOTT A. CROOKER
(*Invited talk*)
- 15:00 WeA1d.4 **Oblique Hanle measurements of InAs/GaAs quantum dot spin-LEDs** — GRIGORIOS ITSKOS
- 15:15 WeA1d.5 **Electrical spin injection from ZnMnSe into InGaAs/GaAs quantum structures** — MICHAEL HETTERICH
- 15:30 WeA1d.6 **Intrinsic current bi-stability in a Datta-Das spin transistor** — KANJI YOH
- 15:45 WeA1d.7 **Spin-dependent transverse magnetic focusing in InSb- and InAs-based heterostructures** — JEAN J HEREMANS

WeA1e: Microcavities II and Photonic Crystal Structures

Wednesday 14:00–16:00; Geheime Ratstube; Chair: E. Cohen

- 14:00 WeA1e.1 **Strong Coupling Regime for a Single Quantum Dot in an Optical Microcavity** — PASCALE SENELLART
(*Invited talk*)
- 14:30 WeA1e.2 **Control of single quantum dot and collective spontaneous emission in 2D photonic crystal nanostructures** — MICHAEL KANIBER
- 14:45 WeA1e.3 **Control of polarized single quantum dot emission in high-quality-factor elliptical microcavity pillars** — PAULO SERGIO S. GUMARÃES
- 15:00 WeA1e.4 **Photon Statistics of Semiconductor Microcavity Lasers** — JAN WIERSIG
- 15:15 WeA1e.5 **Optical Microtube Ring Resonators** — TOBIAS KIPP
- 15:30 WeA1e.6 **Selective excitation of a single quantum dot in a photonic crystal nanocavity by using cavity resonance** — MASAHIRO NOMURA
- 15:45 WeA1e.7 **Terahertz phonon dynamics in acoustic nanocavities** — BERNARD JUSSERAND

WeA2f: Growth, surfaces, and interfaces: Growth and structural characterization of nanostructures, wires, and dots

Wednesday 16:30–19:00; Poster

- 16:30 WeA2f.1 **Structural characterization of CdTe quantum dots grown on Si(111)** — SUKARNO O FERREIRA
- 16:30 WeA2f.2 **Synthesis and Properties of ZnSe Precursor and ZnSe Nanoribbon Arrays on Zn Substrates** — LIJUAN ZHAO
- 16:30 WeA2f.3 **Fractal growth of silicon nanocrystallites during pulsed laser ablation in background gas** — IKUROU UMEZU
- 16:30 WeA2f.4 **Preparation and Properties of Some PVC Nanocomposites** — ONSY I.H. DIMITRY
- 16:30 WeA2f.5 **Morphology of Si Nanowire Grown via Solid-Liquid-Solid Mechanism** — EUN-KYUNG LEE
- 16:30 WeA2f.6 **Surface concentration mapping of InAs/GaAs quantum dots** — GIORGIO BIASIOL
- 16:30 WeA2f.7 **Growth of High Purity Polyaniline Nano and Micro Fibers Using the Electro-spinning Technique** — JAIRO R CÁRDENAS
- 16:30 WeA2f.8 **Optical properties of GaSe nano particles fabricated by laser ablation** — SONARI
- 16:30 WeA2f.9 **Optimization of MBE Growth Parameters for GaAs-based THz Quantum Cascade Lasers** — AARON MAXWELL ANDREWS
- 16:30 WeA2f.10 **Kinetic Lattice Monte Carlo Simulations of Germanium Island and Wire Growth on Prepatterned Silicon (100) Substrates** — RICHARD AKIS
- 16:30 WeA2f.11 **Single-wall carbon nanotubes obtained with metallic catalysts** — PAULO DE TARSO CAVALCANTE FREIRE
- 16:30 WeA2f.12 **InN nanorods growth: influence of temperature, catalyst, and gas flow rate** — ALEKSANDRA B DJURISIC
- 16:30 WeA2f.13 **Quantum dots microstructure by XAFS spectroscopy: GaN/AlN system depending on preparation conditions** — SIMON ERENBURG
- 16:30 WeA2f.14 **Effects of Anisotropic Arrangement and Strain Modification in Laterally Self-aligned InGaAs/GaAs Quantum-dot Heterostructures** — SANG J. LEE
- 16:30 WeA2f.15 **Growth and Luminescence of N doped TiO₂ Nanowires** — ANA CREMADES
- 16:30 WeA2f.16 **Structures and energetics of ZnO, ZnS, and ZnSe nanowires: an empirical interatomic potential approach** — TORU AKIYAMA
- 16:30 WeA2f.17 **MBE growth and characterization of MnP and Ge nanowhiskers** — ALEXEI D. BOURAVLEUV
- 16:30 WeA2f.18 **Fabrication and characterization of Mn-catalyzed GaAs nanowires** — FAUSTINO MARTELLI
- 16:30 WeA2f.19 **AlGaAs/GaAs nano-hetero-epitaxy on a patterned GaAs substrate by MBE** — TATSUYA NISHIWAKI
- 16:30 WeA2f.20 **Electron Paramagnetic Resonance Characterization of Mn- and Co-doped ZnO Nanowires** — AMÉLIA O. ANKIEWICZ
- 16:30 WeA2f.21 **Structure analysis of the Ga nanoclusters on Si(111)-(7×7)** — AKIHIRO OHTAKE
- 16:30 WeA2f.22 **Capping layer effect on the optical and structural characteristics for high density In_xGa_{1-x}As quantum dots (x = 0.5 ~ 0.75)** — TSONG-SHENG LAY
- 16:30 WeA2f.23 **ZnSe/CdSe superlattice nanowires by catalyst-assisted molecular beam** — GRZEGORZ KARCZEWSKI
- 16:30 WeA2f.24 **Surface-Mediated Epitaxy of Germanium on Structured Silicon Substrates: Towards Embedded Germanium** — TOBIAS F. WIETLER
- 16:30 WeA2f.25 **Nano-positioning of Sb-based semiconductor quantum structures for novel-communication devices** — NAOKATSU YAMAMOTO
- 16:30 WeA2f.26 **Thermodynamic analysis of the shape, anisotropy and formation process of InAs/InP(001) quantum dots and quantum sticks grown by Metalorganic Vapor Phase Epitaxy** — GUILLAUME SAINT-GIRONS
- 16:30 WeA2f.27 **Strain field calculations of quantum dots — a comparison study of two methods** — R. KUNERT
- 16:30 WeA2f.28 **In-situ X-ray diffraction study on structural evolution of InAs islands on GaAs(001) during annealing** — MASAMITU TAKAHASI

- 16:30 WeA2f.29 **Analysis on growth of poly-Si domain measured by Imaging Ellipsometry** — YONG WOO JUNG
- 16:30 WeA2f.30 **Time Delayed Feedback Control of Growth Processes** — MICHAEL BLOCK
- 16:30 WeA2f.31 **InGaN selfassembled quantum dots investigated by synchrotron-radiation techniques** — EDYTA PISKORSKA
- 16:30 WeA2f.32 **Evolution of the lateral composition modulation in InAs/AlAs short-period superlattices** — ONDŘEJ CAHA
- 16:30 WeA2f.33 **Ultrasound-stimulated a self-organization of point defects in silicon and silica during ion implantation** — JAROSLAV M. OLÍKH
- 16:30 WeA2f.34 **Arrays of Metal Nanodots designed by Electron Induced Deposition** — HEINZ D WANZENBOECK
- 16:30 WeA2f.35 **InAs self-assembled quantum dot superlattice structure fabricated by strain compensation technique** — RYUJI OSHIMA
- 16:30 WeA2f.36 **Hybrid InAsSb/CdSeTe heterostructures lattice-matched to GaSb** — IRINA V. SEDOVA
- 16:30 WeA2f.37 **Growth and Characterization of InSb:N Quantum Dots** — FARIBA HATAMI
- 16:30 WeA2f.38 **Surface stability and atomic-step-edge kinetics on a cleaved-edge-overgrown (110) GaAs surface** — MASAHIRO YOSHITA
- 16:30 WeA2f.39 **Correlation of interfaces morphologies and optical properties of GaAs/AlGaAs quantum wells grown by MOVPE on vicinal substrates** — NICOLAS MORET
- 16:30 WeA2f.40 **Two-step process for epitaxial growth of thin and atomically flat Fe-films on GaAs(110)** — LARS WINKING
- 16:30 WeA2f.41 **Stranski-Krastanov growth of tensely strained Si on Ge (001) substrates** — DIETMAR PACHINGER
- 16:30 WeA2f.42 **Analysis of strain-decay in InAs/GaAs(001) multilayer quantum dot growth** — STANKO TOMIC
- 16:30 WeA2f.43 **Controlling the Mn concentration in CdTe QDs** — LAURENT MAINGAULT
- 16:30 WeA2f.44 **A new metallic nanowire growth technique utilizing focused ion beams** — CHRISTOPH SCHOENDORFER
- 16:30 WeA2f.45 **Metalorganic chemical vapor deposition of iron nanocrystals and films on (0001)GaN** — ANDREA NAVARRO-QUEZADA
- 16:30 WeA2f.46 **Structural and optical properties of Ge nanocrystals grown by RF-sputtering technique** — P. CALDELAS
- 16:30 WeA2f.47 **Atomic structure of capped InAs(N)/GaAs(N) quantum dots** — H. EISELE
- 16:30 WeA2f.48 **InAs quantum dots, $\text{In}_x\text{Ga}_{1-x}\text{As}$ epilayers and quantum wells on porous GaAs** — YURY NIKOLAEVICH BUZYININ
- 16:30 WeA2f.49 **Structure of In(Ga)As quantum dots for devices** — ANDREA LENZ
- 16:30 WeA2f.50 **InAs/GaAs quantum dots grown with Sb impurities** — ANDREA LENZ
- 16:30 WeA2f.51 **Growth and Excitonic Emission of CdSe Ultra-Thin Quantum Wells without Thickness Fluctuations** — ISAAC HERNÁNDEZ-CALDERÓN
- 16:30 WeA2f.52 **X-ray diffraction from single semiconductor nanostructures** — JULIAN STANGL
- 16:30 WeA2f.53 **Au-free epitaxial growth of InAs nanowires** — BERNHARD MANDL
- 16:30 WeA2f.54 **Local atomic structure of CdSe ultra-thin quantum wells examined by X-ray absorption fine structure experiments.** — ISAAC HERNÁNDEZ-CALDERÓN
- 16:30 WeA2f.55 **InAs wetting layer and quantum dots on GaAs(001) surface studied by in situ STM placed inside MBE growth chamber and kMC simulations based on first-principles calculations** — SHIRO TSUKAMOTO

WeA2g: Heterostructures, quantum wells, superlattices: Terahertz and quantum cascade structures

Wednesday 16:30–19:00; Poster

- 16:30 WeA2g.1 **Magnetic field induced rearrangement of the electric field domains in weakly coupled superlattices** — WEBER H. M. FEU
- 16:30 WeA2g.2 **Alloy scattering in Quantum Cascade Lasers in a magnetic field : a numerical study** — NICOLAS REGNAULT

- 16:30 WeA2g.3 **Fast and tunable photodetectors for Terahertz radiation based on the Landau quantization at HgTe/HgCdTe heterojunctions** — R. BONK
- 16:30 WeA2g.4 **Terahertz Photovoltaic Effect in Bilayer Two-Dimensional Systems** — YURI VASILYEV
- 16:30 WeA2g.5 **THz Bloch oscillator with suppressed electric instability** — TIMO T HYART
- 16:30 WeA2g.6 **Spin-orbit effects on quantum cascade transitions** — VADYM APALCOV
- 16:30 WeA2g.7 **Dephasing of Bloch oscillations due to interface roughness scattering in GaAs/AlAs superlattices** — TAKEYA UNUMA
- 16:30 WeA2g.8 **THz generation in semiconductor superlattice devices in conditions of suppressed electric domains: Progress in theory.** — KIRILL N. ALEKSEEV
- 16:30 WeA2g.9 **Electron Scattering Spectroscopy by High Magnetic Field in Mid-Infrared Quantum Cascade Lasers** — ANGELA VASANELLI
- 16:30 WeA2g.10 **Terahertz detection schemes based on sequential multi-photon absorption** — FABRIZIO CASTELLANO
- 16:30 WeA2g.11 **Plasmon resonances in the terahertz photoresponse of homogeneous 2D electron system with grating gate** — GREGORY AIZIN
- 16:30 WeA2g.12 **Broadband Quantum Cascade Lasers and Superluminescent Diodes Emitting in $6\ \mu\text{m} < \lambda < 8\ \mu\text{m}$ Spectral Range** — EVGENY A ZIBIK
- 16:30 WeA2g.13 **THz generation by optical rectification and competition with other nonlinear processes** — JEROME TIGNON
- 16:30 WeA2g.14 **New probe of electronic and optical processes in quantum cascade lasers under operating conditions** — DMITRY G REVIN
- 16:30 WeA2g.15 **Non-equilibrium quantum transport theory for quantum cascade lasers** — TILLMANN KUBIS
- 16:30 WeA2g.16 **Vertical second-harmonic emission from quantum cascade lasers** — MAXIMILIAN AUSTERER
- 16:30 WeA2g.17 **Optical mode control in surface-plasmon quantum cascade lasers** — VIRGINIE MOREAU
- 16:30 WeA2g.18 **Stressed GaAsN/GaAs heterostructures as a base of THz radiation sources** — DMITRY FIRSOV
- 16:30 WeA2g.19 **Dual-Mode Microdisk Terahertz Quantum-Cascade Lasers** — GERNOT FASCHING
- 16:30 WeA2g.20 **Excitation wavelength dependence of terahertz emission from Indium Nitride thin films** — GRACE D CHERN
- 16:30 WeA2g.21 **Theoretical aspects of time-domain spectroscopy applied to semiconductor terahertz gain medium** — JURAJ DARMO
- 16:30 WeA2g.22 **Photoabsorption of quantum dots in a superlattice in presence of a strong electric field** — VOLKMAR PUTZ
- 16:30 WeA2g.23 **High Performance Quantum Cascade Lasers Grown by MOCVD without Lateral Regrowth** — CLAIRE F GMACHL

WeA2h: Heterostructures, quantum wells, superlattices: Transport, tunneling, high-frequency transport

Wednesday 16:30–19:00; Poster

- 16:30 WeA2h.1 **Radiation-induced magnetoresistance oscillations in two-dimensional electron systems** — XIAOLIN LEI
- 16:30 WeA2h.2 **Electrons reflection under tunnelling into two-dimensional electron system near LO-phonon emission threshold.** — SERGEY E DIZHUR
- 16:30 WeA2h.3 **New type of magnetoresistance oscillations in antidot lattices in Si/SiGe heterostructures** — EUGENE B OLSHANETSKY
- 16:30 WeA2h.4 **Tunnel density of states at Fermi level in two-dimensional electron system.** — IGOR N KOTELNIKOV
- 16:30 WeA2h.5 **Step-like Current-Voltage characteristics and period-adding bifurcations in an external ac-driven GaAs/AlAs superlattice** — HONGTAO HE
- 16:30 WeA2h.6 **Spin g-factor and cyclotron mass of electrons in GaAs/Ga_{1-x}Al_xAs quantum wells** — PAWEŁ PFEFFER

- 16:30 WeA2h.7 **Noise-induced current oscillations in superlattices: from stationary to moving domains** — ECKEHARD SCHÖLL
- 16:30 WeA2h.8 **Quasiclassical magnetotransport of two-dimensional electrons** — ZE DON KVON
- 16:30 WeA2h.9 **Directed ratchet transport in two-dimensional electron system with asymmetrical scatterers** — YURYI KRUPKO
- 16:30 WeA2h.10 **Metal-Insulator Transition in GaAs/AlGaAs Heterostructures: Acoustic Study** — IRINA L. DRICHKO
- 16:30 WeA2h.11 **Interface roughness scattering in type II broken-gap GaInAsSb/InAs single heterostructures** — MAYA P MIKHAILOVA
- 16:30 WeA2h.12 **Interaction Corrections to the Longitudinal Conductivity and Hall Resistivity in High Mobility 2D Systems with Intermediate Density** — GUENNADII M GUSEV
- 16:30 WeA2h.13 **Weak antilocalization in a GaAs quantum well in the presence of a strong in-plane magnetic field** — WILFRIED DESRAT
- 16:30 WeA2h.14 **Interactions: Consequences for the two-dimensional Metal-Insulator Transition** — THEODORE G CASTNER
- 16:30 WeA2h.15 **Role of fluctuations in quantum transport in 2D systems** — IGOR V. ROZHANSKY
- 16:30 WeA2h.16 **The carrier density dependence of hole mobility in strained Ge channel modulation-doped structures** — KENTAROU SAWANO
- 16:30 WeA2h.17 **Carbon doped high mobility hole gases** — CHRISTIAN GERL
- 16:30 WeA2h.18 **AC conductance in p -type Si/SiGe heterostructures in the ultra-quantum limit** — IRINA L. DRICHKO
- 16:30 WeA2h.19 **Microwave-induced collective response in the SiGe Hall bars** — SAMI SASSINE
- 16:30 WeA2h.20 **Control of the Inherent Magnetoresistance in thin InSb epilayers on GaAs (001) by Interfacial Engineering** — WILLIAM R BRANFORD
- 16:30 WeA2h.21 **Surface Fermi energy pinning in high mobility InGaAs/InAlAs modulation doped field effect transistors.** — ELEFTHERIOS SKURAS
- 16:30 WeA2h.22 **Classical magnetoresistance of a two-dimensional electron gas constrained to non-planar topographies in antidot lattice under tilted magnetic field** — NILO M. SOTOMAYOR
- 16:30 WeA2h.23 **Influence of L subband states on optical and electric properties in GaAs/AlAs type-I superlattices** — NAOKI OHTANI
- 16:30 WeA2h.24 **Negative Persistent Photoconductivity Effect on Weak Anti-Localization in Hetero-Interface and InSb Thin Film Layer of InSb/GaAs(100)** — AKIRA FUJIMOTO
- 16:30 WeA2h.25 **Magneto-transport studies in mesoscopic InAs 2DEG devices** — ERNESTO E MARINERO
- 16:30 WeA2h.26 **Study of Spin-Orbit Interaction in $Al_xGa_{1-x}As_ySb_{1-y}/InAs$ Quantum Wells by Means of Persistent Photoconductivity Effect on Weak Localization** — SHUICHI ISHIDA
- 16:30 WeA2h.27 **Terahertz irradiation effect on magneto-resistance in a two-dimensional electron system in a GaAs/AlGaAs heterostructure** — AYAKO SUGAHARA
- 16:30 WeA2h.28 **Magneto-oscillation due to Gantmakher effect in microwave transmission of 2-dimensional electron gas** — KEN-ICHI FUJII
- 16:30 WeA2h.29 **Shallow HEMTs for lateral magnetic superlattices** — RALF DINTER
- 16:30 WeA2h.30 **Diffraction from quasiperiodic unidirectional lateral superlattice observed in the geometric resonance of magnetoresistance** — AKIRA ENDO
- 16:30 WeA2h.31 **Ballistic rectification effects in InAs/AlGaSb nano-structures** — MASATOSHI KOYAMA
- 16:30 WeA2h.32 **Low Temperature Conductivity of Field Induced Bilayer in SiO_2 -Si-SiO₂ Quantum Well** — MIKA PRUNNILA
- 16:30 WeA2h.33 **Microwave induced interaction between the conducting and localized electrons in a quantum ring** — KEN-ICHI FUJII
- 16:30 WeA2h.34 **Quantum Dynamical Study of Electron Transport in 2D Nanostructures under External Field** — SHOICHI SAKAMOTO
- 16:30 WeA2h.35 **Absorption of a two-dimensional electron gas** — OLEH M. FEDORYCH
- 16:30 WeA2h.36 **Quantum well acousto-electronic gate based on a standing wave piezoelectric potential** — OLEG A KOROTCHENKOV

- 16:30 WeA2h.37 **Ballistic behavior of electrons in semiconductor multi-terminal junctions at room temperature** — DANIEL WALLIN
- 16:30 WeA2h.38 **Absorption at harmonics of cyclotron frequency caused by spin-orbit interaction** — MICHEL I DYAKONOV
- 16:30 WeA2h.39 **Lateral Transport in Asymmetric Quantum Wells under Strong Excitation** — JALLES F. R. DA CUNHA
- 16:30 WeA2h.40 **Stark Magnetophonon Resonance observation in InAs/GaSb superlattices** — RUSSELL S DEACON
- 16:30 WeA2h.41 **Superlattice Magnetophonon resonance in Strongly Coupled InAs/GaSb superlattices** — RUSSELL S DEACON
- 16:30 WeA2h.42 **Phonon-assisted resonant tunnelling through single X-minimum related donors in submicrometer mesa structures** — MARTA GRYGAS
- 16:30 WeA2h.43 **Time dependent model of resonant tunneling in multiple-wide-quantum-well structures with homogeneous and nonhomogeneous interfaces** — VLADIMIR N. MURZIN
- 16:30 WeA2h.44 **Thermodynamic and transport properties of two-dimensional GaAs systems near the apparent Metal-Insulator Transition** — EVGENIY A GALAKTIONOV
- 16:30 WeA2h.45 **Corrections to the Drude conductivity and Hall resistivity caused by electron interaction and ‘memory’ effects in the presence of mixed disorder** — EVGENIY A GALAKTIONOV
- 16:30 WeA2h.46 **Resistance fluctuations near the “metal-to-insulator” transition** — ANDREY V KRETININ
- 16:30 WeA2h.47 **Switching from classical to ballistic transport in a 100-nm gamma-gate Al-GaAs/InGaAs pHEMT under lowered temperatures** — NAMBIN KIM
- 16:30 WeA2h.48 **Formation of quantum dots in the contact regions in the metal-insulator transition regime in high-mobility Si inversion layers** — GEORG PILLWEIN
- 16:30 WeA2h.49 **The observation of magnetic phonon modes in modulation-doped dilute $\text{Cd}_{1-x}\text{Mn}_x\text{Te}/\text{Cd}_{1-y}\text{MgyTe}$ quantum well structure** — YONG-JIE WANG
- 16:30 WeA2h.50 **Low-temperature mobilities and energy loss rates of two-dimensional electrons in Si inversion layers** — KYUNGHWA PARK

WeA2i: Heterostructures, quantum wells, superlattices: Phonons, plasmons

Wednesday 16:30–19:00; Poster

- 16:30 WeA2i.1 **Piezoelectric acoustic heterostructures: Raman scattering and femtosecond pump&probe results** — MARÍA F. PASCUAL WINTER
- 16:30 WeA2i.2 **Resonance piezoelectric electron-phonon interaction in multiple-quantum well structures** — BORIS A GLAVIN
- 16:30 WeA2i.3 **Gain of intersubband Raman lasing in modulation-doped GaAs/AlGaAs coupled double quantum wells tuned by an external bias** — SHIN-ICHI KATAYAMA
- 16:30 WeA2i.4 **Phonon engineering with THz acoustic nanocavities** — ALEJANDRO FAINSTEIN

WeA2j: Heterostructures, quantum wells, superlattices: Hybrid structures

Wednesday 16:30–19:00; Poster

- 16:30 WeA2j.1 **Hysteretic Operation of Integrated Nanomagneto-electronic Devices** — JONG-UK BAE
- 16:30 WeA2j.2 **Polarization switching effects in ferromagnetic/ferroelectric hybrid double quantum wells** — NAMMEE KIM
- 16:30 WeA2j.3 **Light emission from polymer-semiconductor nanocrystals (PFO-CdSe/ZnS) structures.** — KRZYSZTOF NAUKA
- 16:30 WeA2j.4 **Specific adhesion of peptides on semiconductor surfaces in experiment and simulation** — KARSTEN GOEDE

WeA2k: Nanostructures: one- and zero-dimensional systems: Electronic properties, transport: dots and coupled dots

Wednesday 16:30–19:00; Poster

- 16:30 WeA2k.1 **Quantum-current transport through an array of coupled quantum-dots accounting for k.p electronic bandstructures** — MORTEN WILLATZEN
- 16:30 WeA2k.2 **Ferromagnetic Lead Effects on Inelastic Cotunneling Current and Shot Noise of an Interacting Quantum Dot** — NORMAN J.M. HORING
- 16:30 WeA2k.3 **Geometical and Impurities Effects on the Energy Spectrum in Quantum Rings** — JOSE A. K. FREIRE
- 16:30 WeA2k.4 **Tunneling through nanosystems: Combining broadening with many-particle states** — JONAS N. PEDERSEN
- 16:30 WeA2k.5 **Removing spin blockade in a double quantum dot: role of spontaneous emission of phonons** — JESUS INARREA
- 16:30 WeA2k.6 **Charge correlation and spin coupling in double quantum dots** — JUN NAKAMURA
- 16:30 WeA2k.7 **Hole transport in p-type GaAs quantum dots** — BORIS GRBIĆ
- 16:30 WeA2k.8 **Theory and experiment of InAs/InP quantum dots: from calculations to laser emission** — CHARLES CORNET
- 16:30 WeA2k.9 **Observation of quantum effects in the electron transport characteristics of a nanocrystalline silicon point contact transistor** — MOHAMMED A. H. KHALAFALLA
- 16:30 WeA2k.10 **Andreev tunneling through an interacting quantum dot: Numerical renormalization group approach** — YOICHI TANAKA
- 16:30 WeA2k.11 **Spin polarization in open quantum dots and two dimensional electron gas** — MARTIN EVALDSSON
- 16:30 WeA2k.12 **Excitation spectra of two correlated electrons in a quantum dot** — THOMAS IHN
- 16:30 WeA2k.13 **Dependence of charge trapped on nanocrystals and electron transport on excess Si in silicon-rich SiO₂** — IRINA V ANTONOVA
- 16:30 WeA2k.14 **Coupling of quantum states in InAs/GaAs quantum dot molecule** — MIKHAIL M SOBOLEV
- 16:30 WeA2k.15 **Spin-resolved edge state structure around an antidot** — IGOR V ZOZOULENKO
- 16:30 WeA2k.16 **High bias non-linear magneto-transport through two weakly coupled vertical quantum dots: The quasi-2D regime to the strong 0D-limit crossover by gate tuning** — DAVID G AUSTING
- 16:30 WeA2k.17 **Thermopower due to Kondo Effect in Quantum Dot Systems with Orbitals** — RUI SAKANO
- 16:30 WeA2k.18 **Meta-stable excited states of a closed quantum dot probed by Aluminum single electron transistor** — JENG-CHUNG CHEN
- 16:30 WeA2k.19 **Dynamical Tunneling in Open Quantum Dot Arrays** — ROLAND BRUNNER
- 16:30 WeA2k.20 **The carrier “antibinding” in narrow quantum dots: a decrease in confinement efficiency** — MARC-ANDRE DUPERTUIS
- 16:30 WeA2k.21 **Noninvasive detection of charge rearrangement in a quantum dot** — CHRISTIAN FRICKE
- 16:30 WeA2k.22 **Voltage-tunable ferromagnetism in semimagnetic quantum dot systems with few particles: Magnetic polarons and electrical capacitance** — ALEXANDER O GOVOROV
- 16:30 WeA2k.23 **Tunable quantum dots and charge sensing in carbon nanotubes** — GEORG GOETZ
- 16:30 WeA2k.24 **Probing of overlapping Fano resonances by a multi-terminal interferometer** — ARKADY M SATANIN
- 16:30 WeA2k.25 **Optical transitions and the nature of Stokes shift in spherical CdS quantum dots** — DENIS O DEMCHENKO
- 16:30 WeA2k.26 **Electron confinement in nanocrystals embedded in random media: Anderson localization effects** — MIKHAIL I VASILEVSKIY
- 16:30 WeA2k.27 **Quantum dots with internal substructure** — DAVY GRAF
- 16:30 WeA2k.28 **The role of the leads on imaging process of scar wave functions in quantum dots.** — PETER A. SCHULZ
- 16:30 WeA2k.29 **Electron transport through triple-quantum-dot systems** — LEV MOUROKH

- 16:30 WeA2k.30 **Thermal conductance of a weakly coupled quantum dot** — MARGARITA TSAOUSIDOU
- 16:30 WeA2k.31 **Memory window improvement effect in boron doped Si nanocrystal memory** — KEVIN BANG
- 16:30 WeA2k.32 **Kondo effect in quantum dots coupled to ferromagnetic leads: effect of non-collinear magnetization** — DAISUKE MATSUBAYASHI
- 16:30 WeA2k.33 **Electrical characterisation of ordered Si:P dopant arrays** — WILSON POK
- 16:30 WeA2k.34 **Resonant Tunneling through Quantum States of Enhancement Mode In-Plane-Gate Quantum Dot Transistors** — SEUNGHUN SON
- 16:30 WeA2k.35 **Kondo and Dicke effect in quantum-dots side coupled to a quantum wire** — PEDRO A ORELLANA
- 16:30 WeA2k.36 **Probing spin configurations in quantum dots** — MAXIMILIAN C. ROGGE
- 16:30 WeA2k.37 **Effect of light illumination on the conductivity of tunnel-coupled Ge/Si quantum dots** — NATALIA P STEPINA
- 16:30 WeA2k.38 **Investigation of the quantum confinement effects in CdTe dots by electrical measurements** — EWA PLACZEK-POPKO
- 16:30 WeA2k.39 **Super-Poissonian Shot Noise in Tunneling through Coupled Self-Assembled InAs Quantum Dots** — PATRICK BARTHOLD
- 16:30 WeA2k.40 **Non-Orthogonal Theory for Computation of Quantum Dot Polarons** — MARC-ANDRÉ DUPERTUIS
- 16:30 WeA2k.41 **Quantum dot array energy spectrum tuning with laser pulse action** — ANATOLY V. DVURECHENSKII
- 16:30 WeA2k.42 **Delocalization in two dimensional systems with correlated disorder** — RODRIGO A CAETANO
- 16:30 WeA2k.43 **Scanning Gate Measurements on a Coupled Quantum Dot-QPC System** — ARND E GILDEMEISTER
- 16:30 WeA2k.44 **Zero g-factor in quantum dots** — WEIDONG SHENG
- 16:30 WeA2k.45 **Observation of the Stark Effect in a Single Acceptor in Si** — LAURIE E CALVET
- 16:30 WeA2k.46 **Quantum information processing using designed defects in 2D anti-dot lattices** — CHRISTIAN FLINDT
- 16:30 WeA2k.47 **Topological Hund's rules in a triple quantum dot molecule** — PAWEŁ HAWRYŁAK
- 16:30 WeA2k.48 **Path Detection in QDs: From Coherent Resonant Tunnelling to Sequential Tunnelling** — DANIEL ROHRlich
- 16:30 WeA2k.49 **The Influence of thin GaAs layer deposition on InAs/ (InGaAs)/InP Quantum Dot** — PILKYUNG MOON
- 16:30 WeA2k.50 **Coulomb Blockade Imaging of Few-Electron Quantum Dots in a Magnetic Field** — PARISA FALLAHI
- 16:30 WeA2k.51 **Linear and Nonlinear Transport in Single Magnetic-Ion-Doped Quantum Dots** — FANYAO QU
- 16:30 WeA2k.52 **Breakdown of the Onsager-Casimir relations in electron billiards** — HEINER LINKE
- 16:30 WeA2k.53 **Energy Level Engineering of Coupled InAs Quantum Dot Structures** — JIN SOAK KIM
- 16:30 WeA2k.54 **Stability of spin phases in few-electron coupled quantum dots under magnetic fields** — GUIDO GOLDONI
- 16:30 WeA2k.55 **Fano effect in a ring-dot system with tunable coupling.** — ANDREAS FUHRER
- 16:30 WeA2k.56 **A high-performance configuration-interaction study of Wigner crystallization in quantum dots** — MASSIMO RONTANI
- 16:30 WeA2k.57 **Effects of Electron-Phonon Interaction on Quantum Transport Through the Single Molecule Transistor** — BANG-FEN ZHU
- 16:30 WeA2k.58 **Constant Capacitance-DLTS on InAs-Quantum Dots embedded in Schottky diodes** — JAN SCHAEFER
- 16:30 WeA2k.59 **Current instabilities in resonant tunneling quantum dot structures** — KATHY LÜDGE
- 16:30 WeA2k.60 **Recombination, transport and loss mechanisms in p-doped InAs/GaAs quantum dots** — IGOR P MARKO

- 16:30 WeA2k.61 **Influence of Electron-Phonon Interaction on Fano Resonance in Aharonov-Bhom Interferometer** — AKIKO UEDA
- 16:30 WeA2k.62 **Thermoelectric power in coherent transport as a tool for transmission-phase measurement** — TAKESHI NAKANISHI
- 16:30 WeA2k.63 **Quantum dots defined in InAs quantum wires by local gate electrodes** — CARINA FASTH
- 16:30 WeA2k.64 **Landé g-tensor in semiconductor nanostructures** — THIAGO P MAYER ALEGRE
- 16:30 WeA2k.65 **Influences of vibrations to Fano resonances in a C₆₀** — SHIGEO FUJIMOTO
- 16:30 WeA2k.66 **Excitons in type II self-assembled quantum dots.** — JUSTINO R MADUREIRA
- 16:30 WeA2k.67 **Exciton states and magneto-optical transitions in stacks of InGaAs/GaAs self-assembled quantum rings** — MILAN TADIC
- 16:30 WeA2k.68 **Towards the realization of a charge detector for nanowire quantum dots** — DANIEL WALLIN
- 16:30 WeA2k.69 **Ground state transition energies of electron and hole in cubic GaN/AlN quantum dots** — YOSR TURKI-BENALI
- 16:30 WeA2k.70 **Bunching of Electrons in Transport through Quantum Dots** — OREN ZARCHIN
- 16:30 WeA2k.71 **Strain and electronic structure interactions in realistically scaled quantum dot stacks** — CLEMENS HEITZINGER
- 16:30 WeA2k.72 **Symmetry breaking and fine structure splitting in self-assembled zincblende quantum dots: atomistic simulations of long-range strain and piezoelectric field** — MUHAMMAD USMAN
- 16:30 WeA2k.73 **Anomalous Kondo Spin Splitting in Quantum Dots** — JOSE MARCELO J. M. AGUIAR HUALDE
- 16:30 WeA2k.74 **Side-Connected Dots in the Kondo Regime: Effect of the Dot-Dot Interaction on Transport** — MARIA A. DAVIDOVICH
- 16:30 WeA2k.75 **Effects of thermal treatment on the intrinsic and deep level states in self-assembled InAs quantum dot structures** — SHIWEI LIN

WeA2I: Nanostructures: one- and zero-dimensional systems: Ultrafast, coherent and non-linear optical studies

Wednesday 16:30–19:00; Poster

- 16:30 WeA2I.1 **Pump-probe spectroscopy of CuCl exciton-biexciton system in a slab: Aspect of EIT interpretation** — KIKUO CHO
- 16:30 WeA2I.2 **All-optical quantum coherent control of electron spin in semiconductor quantum dots** — GABRIELA M SLAVCHEVA
- 16:30 WeA2I.3 **Theory of transient four-wave mixing in coupled quantum dot systems** — GAETANO PARASCANDOLO
- 16:30 WeA2I.4 **Femtosecond polarization relaxation in CdSe nanocrystals** — ANDREAS TORTSCHANOFF
- 16:30 WeA2I.5 **Exciton radiative recombination rate in ZnO quantum dots** — XINHAI ZHANG
- 16:30 WeA2I.6 **Anomalous time evolution of exciton coherence in highly-stacked InAs quantum dots** — JUNKO ISHI-HAYASE
- 16:30 WeA2I.7 **Polarization-dependent four-wave mixing measurements in highly-stacked InAs quantum dots** — MAMIKO KUJIRAOKA
- 16:30 WeA2I.8 **Phonon-Induced Exciton Dephasing in CdTe Self-Organized Quantum Dots** — TADASHI KISHIMOTO
- 16:30 WeA2I.9 **Relaxation of electron-hole pairs by coherent emission of LO-phonons in a quantum kinetic regime** — PIERRE GILLIOT
- 16:30 WeA2I.10 **Energy dependence of the linear and dynamical photo-induced dichroism of InAs/GaAs self-assembled quantum dots** — EMILIE AUBRY
- 16:30 WeA2I.11 **Two-Photon Excitation of Coupled Asymmetric GaN/AlGaIn Quantum Discs** — KWAN H LEE

WeA2m: Nanostructures: one- and zero-dimensional systems: Carrier dynamics, relaxation

Wednesday 16:30–19:00; Poster

- 16:30 WeA2m.1 **Carrier dynamics under an AC electric field for nanowire superlattices** — LOK C LEW YAN VOON
- 16:30 WeA2m.2 **Carrier relaxation dynamics 1.55 micron InAs/InP quantum dots under high resonant excitation** — LABBÉ CHRISTOPHE
- 16:30 WeA2m.3 **Coupling, Relaxation and Coherent Emission in Semiconductor Double Quantum Dots** — LOK C LEW YAN VOON
- 16:30 WeA2m.4 **Disorder and Interference Processes in Low-dimensional Transport and Kinetics** — VLADIMIR MITIN
- 16:30 WeA2m.5 **Direct observation of electronic couplings between 1.5 um emitting InGaAs/InGaAsP quantum dots on InP** — YUDONG JANG
- 16:30 WeA2m.6 **Resonant amplification and relaxation process of transient current in nano-contact systems** — HIROYUKI ISHII
- 16:30 WeA2m.7 **Theory of Terahertz-Radiation Activated Ground-State Luminescence in Quantum Dots** — FREDRIK BOXBERG
- 16:30 WeA2m.8 **Factors influencing temperature dependence of the photo- and electroluminescence from self-assembled InAs/GaAs quantum dots** — NIKOLAY V BAIDUS
- 16:30 WeA2m.9 **Influence of the electronic energy level spacing on the carrier dynamics of single InP quantum dots** — MATTHIAS REISCHLE
- 16:30 WeA2m.10 **Characterization of tunneling and free-carrier screening in coupled asymmetric GaN/AlGaIn quantum discs** — KWAN H LEE
- 16:30 WeA2m.11 **Spatio-temporal dynamics of charge carriers in quantum dot-wire systems** — DORIS REITER
- 16:30 WeA2m.12 **The origin of the broad distribution of exciton lifetimes in InGaIn quantum dots** — MATTHIAS DWORZAK
- 16:30 WeA2m.13 **Electron-Acoustic Phonon Interaction in Nanostructures** — FRANK GROSSE

WeA2n: Semiconductor Spintronics: Optical studies and spin dynamics

Wednesday 16:30–19:00; Poster

- 16:30 WeA2n.1 **Picosecond decrease of magnetization induced by photocarriers in diluted magnetic semiconductor quantum wells** — ALEXEY V SCHERBAKOV
- 16:30 WeA2n.2 **Spin orientation and spin currents induced by linearly polarized light** — SERGEY A. TARASENKO
- 16:30 WeA2n.3 **Picosecond spin relaxation of acceptor-bound exciton in Wurtzite GaN** — AT-SUSHI TACKEUCHI
- 16:30 WeA2n.4 **Recombination and spin dynamics of excitons in III-V/II-VI:Mn heterovalent double quantum wells** — TOROPOV A. A.
- 16:30 WeA2n.5 **Long-lived spin coherence of diluted two-dimensional electron gas in CdTe/CdMgTe quantum wells** — DMITRI R YAKOVLEV
- 16:30 WeA2n.6 **Optical orientation of electron spins by in-plane excitation of GaAs quantum wells** — STEFAN PFALZ
- 16:30 WeA2n.7 **Coupling of a Single Nitrogen-Vacancy Center to Nitrogen Spins in Diamond** — FELIX M MENDOZA
- 16:30 WeA2n.8 **Spin dynamics of electrons, holes, and magnetic ions in III-V quantum wells** — ROBERTO C MYERS
- 16:30 WeA2n.9 **Spin dynamics controlled by spin-dependent recombination in GaAsN alloys at room temperature** — VLADIMIR K. KALEVICH
- 16:30 WeA2n.10 **Spin relaxation in quantum wire with spin-orbit interaction** — TOMOAKI KANEKO
- 16:30 WeA2n.11 **Rashba spin splitting and circular photogalvanic effect in GaN-based heterostructures** — LEONID E GOLUB
- 16:30 WeA2n.12 **Temperature dependence of exciton spin relaxation rates in semiconductor quantum dots** — ALEXANDER N. REZNITSKY

- 16:30 WeA2n.13 **Spin Relaxation Anisotropy in Quantum Well Structures** — LEONID E. GOLUB
- 16:30 WeA2n.14 **Electron spin resonance investigations of the two-dimensional electron gas confined in GaN/AlGaN interface** — AGNIESZKA WOŁÓŚ
- 16:30 WeA2n.15 **Spin Coherence of Electrons in n-doped CdTe/(Cd, Mg)Te Quantum Wells** — RUDOLF BRATSCHITSCH
- 16:30 WeA2n.16 **Nuclear spin effects in negatively charged InP quantum dots** — SERGEY YU. VERBIN
- 16:30 WeA2n.17 **Study of spin dynamics in quantum Hall regime by time resolved Kerr rotation spectroscopy** — DAISUKE FUKUOKA
- 16:30 WeA2n.18 **Role of Interfaces on the Rashba Effect in Heterostructures** — SAADI LAMARI
- 16:30 WeA2n.19 **Ultrafast Carriers Dynamics in GaSb/Mn Random Alloys** — ANDREA G MARKELZ
- 16:30 WeA2n.20 **Coherent Oscillatory Spin-Dynamics in High-Mobility 2D Electron Gases.** — RICHARD HARLEY
- 16:30 WeA2n.21 **Spin relaxation in SiGe islands** — H. MALISSA
- 16:30 WeA2n.22 **Exciton-polariton spin coherence measured by four-wave mixing experiments in the $\chi^{(3)}$ regime** — PIERRE GILLIOT
- 16:30 WeA2n.23 **k-dependence of the electron spin-flip time in GaAs** — A. AMO
- 16:30 WeA2n.24 **Current-Induced Spin Polarization in (113) Two-Dimensional Hole Gas** — PAVEL A BLAJNOV
- 16:30 WeA2n.25 **Quenching of the electronic spin relaxation by localization on donors** — MARIA CHAMARRO
- 16:30 WeA2n.26 **Spin Relaxation in 2D Electron Gases in Strong Scattering Regime.** — RICHARD HARLEY
- 16:30 WeA2n.27 **Spin coherence of holes in GaAs/AlGaAs quantum wells.** — MARCIN SYPEREK
- 16:30 WeA2n.28 **Electron spin quantum beats in positively charged InAs quantum dots** — BERNHARD URBASZEK
- 16:30 WeA2n.29 **Spin lifetime in chemically synthesised PbSe quantum dots** — KONSTANTIN L LITVINENKO
- 16:30 WeA2n.30 **Polarised electroluminescence from GaMnAs/GaAs p-i-n quantum well diodes** — OLEG MAKAROVSKY
- 16:30 WeA2n.31 **Spin Susceptibility Enhancement of a Spin Polarized Two Dimensional Electron Gas determined by Raman Spectroscopy** — FLORENT PEREZ

WeA2o: Semiconductor Spintronics: Nuclear spin interactions

Wednesday 16:30–19:00; Poster

- 16:30 WeA2o.1 **Indirect Exchange Coupling and Nuclear Spin Diffusion in Low Dimensional Semiconductors: an NMR Study** — ALEXANDER M. PANICH
- 16:30 WeA2o.2 **Nuclear Hyperpolarization and Polarization Transfer in InP** — ATSUSHI GOTO
- 16:30 WeA2o.3 **^{71}Ga nuclear magnetic relaxation measurements in zinc-blende GaN** — ROBIN N MORRIS
- 16:30 WeA2o.4 **Optical pumping of ^{15}N nuclear spin polarization in zinc-blende GaN for magnetic resonance signal enhancement** — ROBIN N MORRIS
- 16:30 WeA2o.5 **Coherent control of electron spin decoherence by nuclear spins in a quantum dot** — REN-BAO LIU
- 16:30 WeA2o.6 **Dynamical nuclear spin polarization in gated double quantum dots** — GUY RAMON
- 16:30 WeA2o.7 **Impact of electron life-time on nuclear spin in InGaAs quantum dots** — ALEXANDER I. TARTAKOVSKII
- 16:30 WeA2o.8 **Self-quenching of hyperfine-induced electron spin relaxation in InAs/GaAs quantum dots due to dynamic nuclear polarization** — BENOÎT EBLE

WeA2p: Applications and Devices: Electronic devices

Wednesday 16:30–19:00; Poster

- 16:30 WeA2p.1 **Theory of nanogated field-effect transistors** — ZINOVI S GRIBNIKOV
- 16:30 WeA2p.2 **Strong free exciton emission in an AlGaAs/GaAs HEMT structure** — KAZUNORI AOKI
- 16:30 WeA2p.3 **Electron mobility and concentration on submicrometer scale – investigation of Si and GaN field effect transistors by AC magnetoresistance method** — MACIEJ SAKOWICZ
- 16:30 WeA2p.4 **Atomistic pseudopotential simulation of nanometer sized CMOS devices** — LIN-WANG WANG
- 16:30 WeA2p.5 **DRAM storage time of milliseconds demonstrated in self-organized quantum dots** — MARTIN GELLER
- 16:30 WeA2p.6 **Geometric enhancement of the transport properties of InSb films on GaAs (001)** — WILLIAM R BRANFORD
- 16:30 WeA2p.7 **Characteristics of nano floating gate memory with Au nano-particles and SiON dielectrics** — MIN SEUNG LEE
- 16:30 WeA2p.8 **Thermoelectric properties of and device physics based on InSb and InN semiconductors** — JUN YAMAZAKI
- 16:30 WeA2p.9 **Parameter Modelling for High Order Transport Models** — MARTIN WAGNER
- 16:30 WeA2p.10 **Low-Field Mobility in Strained Si Surface Layers and Ultra-Thin Body SOI on different Substrate Orientations** — ENZO UNGERSBOECK
- 16:30 WeA2p.11 **Field characteristics of electron mobility and velocity in InAs/AlGaSb HFETs with high-k gate insulators** — TOSHIHIKO MAEMOTO
- 16:30 WeA2p.12 **Accurate Extraction of Conduction Parameter in MOSFETs on Si(110) surface** — PHILIPPE GAUBERT
- 16:30 WeA2p.13 **Self-consistent Wigner Monte Carlo simulations of current in nanodevices: role of tunneling and scattering** — VIKTOR SVERDLOV
- 16:30 WeA2p.14 **One-dimensional sub-threshold channels in nanoscale triple-gate silicon transistors** — GABRI P LANSBERGEN
- 16:30 WeA2p.15 **Modelling Random Resistive Memory Devices** — MARÍA J. SÁNCHEZ
- 16:30 WeA2p.16 **Modeling of Electron Transport in GaN-based Materials and Devices** — STANISLAV VITANOV
- 16:30 WeA2p.17 **Quantum Non-Locality in Systems with Open Boundaries: Limitations of the Wigner function formalism** — DAVID TAJ

WeA2q: Applications and Devices: Photonic devices

Wednesday 16:30–19:00; Poster

- 16:30 WeA2q.1 **Resonator fabrication for switchable two-color MIR detectors based on p-type SiGe quantum cascade injectors** — MARTYNA GRYDLIK
- 16:30 WeA2q.2 **Competition of different recombination channels in metamorphic 1.5 μm range quantum dot lasers on GaAs substrate** — LEONID YA. KARACHINSKY
- 16:30 WeA2q.3 **Near-Field Optical Microscopy of AlGaInP Laser Diode Emissions and Comparison with Far-Field Observation - Possible Non-Radiating Modes -** — AKIHIRO TOMIOKA
- 16:30 WeA2q.4 **Comparison of Near-Field Emission Profiles and Emission Spectra of AlGaInP Laser Diode with Far-Field TE- and TM-mode Counterparts** — AKIHIRO TOMIOKA
- 16:30 WeA2q.5 **The two-dimensional bigradient effect and its application for GHz–THz sensing** — GINTARAS VALUSIS
- 16:30 WeA2q.6 **Si:Er-based Light Emitting Diodes with Extended Space Charge Region** — VIACHESLAV B SHMAGIN
- 16:30 WeA2q.7 **High Efficient Schottky ZnO Photodiode UV Detector** — PING YU
- 16:30 WeA2q.8 **Fabrication of silicon vertical taper structures for fiber to chip coupler by KOH anisotropic etching** — ROMAN HOLLY
- 16:30 WeA2q.9 **Optical properties of IR quantum dot detectors with miniband tunnel extraction** — F. F. SCHREY

- 16:30 WeA2q.10 **Electro-optic memory effect at 1.54 μm Si:Er light-emitting diodes** — W. JANTSCH
- 16:30 WeA2q.11 **Mid-infrared excitation of plasmonic resonances in highly anisotropic layered semiconductor structures** — DEBORAH L SIVCO
- 16:30 WeA2q.12 **Red, green and 1.54 μm emissions from an Er-doped n-ZnO/p-Si light emitting diode** — SUSUMU HARAKO
- 16:30 WeA2q.13 **Avalanche Photodiode Structure for Photon Counting on SiGe Epitaxial Layer** — JOSEF BLAZEJ
- 16:30 WeA2q.14 **Band alignment and carrier recombination in GaAsSb/GaAs quantum wells** — KONSTANZE HILD
- 16:30 WeA2q.15 **Waveguiding Si/SiGe:Er/Si Structures – An Approach for Laser Realization** — MARGARITA STEPIKHOVA
- 16:30 WeA2q.16 **Mechanism of Electron-Hole Pair Generation and Light Emission for Electro-Luminescence Devices with Silicon Nano-Crystals Prepared by Laser Ablation Method** — AKIRA SUGIMURA
- 16:30 WeA2q.17 **Advancements of LED packaging for white light sources** — FRANZ P WENZL
- 16:30 WeA2q.18 **On the Origin of Photoconductivity in Lateral Quantum Dots-in-a-Well Infrared Photodetectors** — LINDA HÖGLUND

WeA2r: Applications and Devices: Terahertz and cascade lasers

Wednesday 16:30–19:00; Poster

- 16:30 WeA2r.1 **Carrier Injection as a Cause of THz Lasing Excitation in SiGe/Si QW Structures.** — MIRON S KAGAN
- 16:30 WeA2r.2 **Bipolar THz laser: the way out of fundamental gain limitations.** — LEONID D SHVARTSMAN
- 16:30 WeA2r.3 **Silicon Stokes terahertz laser** — SERGEY G PAVLOV
- 16:30 WeA2r.4 **Quantum-cascade lasers operating at low electric field strengths** — LUTZ SCHROTTKE
- 16:30 WeA2r.5 **Room temperature terahertz emission from nanometer field effect transistors** — MICHEL DYAKONOV
- 16:30 WeA2r.6 **Electron-photon coupling in opto-electronic quantum devices: from electroluminescence to lasing** — RITA C. IOTTI
- 16:30 WeA2r.7 **Thermal modelling of Antimonide-based quantum cascade lasers** — CRAIG A EVANS
- 16:30 WeA2r.8 **Room temperature operation of $\lambda = 7.5 \mu\text{m}$ surface-plasmon quantum cascade lasers** — MICHAEL BAHRIZ
- 16:30 WeA2r.9 **Optimization of InP-based waveguides for high-performance mid-infrared quantum cascade lasers** — OANA MALIS

WeA2s: Applications and Devices: Novel device concepts

Wednesday 16:30–19:00; Poster

- 16:30 WeA2s.1 **Continuous focal-plane array for detection of Terahertz radiation** — DMITRY KHOKHLOV
- 16:30 WeA2s.2 **Phase coherent photorefractive effect in ZnSe quantum wells using ultrashort pulses** — HANS-PETER WAGNER
- 16:30 WeA2s.3 **Sensitive detection of mid-infrared light** — ZHENGHUA AN
- 16:30 WeA2s.4 **Optical ionization of amino acids using amino-acid/semiconductor junctions** — ODA MASATO
- 16:30 WeA2s.5 **Power-optimized single-mode slot waveguides** — PAUL MÜLLNER
- 16:30 WeA2s.6 **Extraordinary Optoconductance in In-GaAs and In-InSb metal-semiconductor hybrid structures** — KRISTOPHER A. WIELAND
- 16:30 WeA2s.7 **Extraordinary Electroconductance in In-GaAs metal-semiconductor hybrid structures** — YUN WANG
- 16:30 WeA2s.8 **Generation of micro-plasma in porous silicon** — HOI LAM TAM

- 16:30 WeA2s.9 **Design strategies in InAs/InGaAs quantum dots-in-a-well infrared photodetectors** — PANTELIS AIVALIOTIS
- 16:30 WeA2s.10 **Ultimate Control of the Thermal Shift of a Tilted Cavity Laser Wavelength** — MARIA B LIFSHTS

ThM1a: Transport in Wires

Thursday 9:00–10:30; Festsaal; Chair: M. Heiblum

- 9:00 ThM1a.1 **The Coulomb blockade regime in disordered AIAs cleaved-edge overgrown quantum wires** — JOEL MOSER
- 9:15 ThM1a.2 **Conductance quantisation in an induced hole quantum wire** — OLEH KLOCHAN
- 9:30 ThM1a.3 **Oscillatory persistent currents in nano-volcanoes** — NIEK KLEEMANS
- 9:45 ThM1a.4 **Partial passivation effects in hydrogen-terminated Si, Ge, and Si/Ge nanowires** — HELIO CHACHAM
- 10:00 ThM1a.5 **High-performance thermoelectrics based on heterostructure nanowires** — HEINER LINKE
- 10:15 ThM1a.6 **Electrical properties of atomically controlled Si:P devices created by scanning probe microscopy** — FRANK J RUESS

ThM1b: Nuclear Spin Interactions

Thursday 9:00–10:30; Zeremoniensaal; Chair: L.Kouwenhoven

- 9:00 ThM1b.1 **Optical pump-probe detection of coherent nuclear spin dynamics in n-GaAs quantum wells** — SHUNICHIRO MATSUZAKA
- 9:15 ThM1b.2 **Nuclear spin switch in InGaAs quantum dots** — ALEXANDER I TARTAKOVSKII
- 9:30 ThM1b.3 **Nuclear spin control by a point contact** — GO YUSA
(*Invited talk*)
- 10:00 ThM1b.4 **Dynamic nuclear polarization of a single InAs/GaAs quantum dot: positive versus negative trions** — BENOÎT EBLE
- 10:15 ThM1b.5 **Electron and Nuclear Spin Dynamics in a Single Quantum Dot: Low Field Limit** — ILYA AKIMOV

ThM1c: Structural, Electronic and Optical Properties of Bulk Materials

Thursday 9:00–10:30; Gartensaal; Chair: E. Haller

- 9:00 ThM1c.1 **In-plane band gap engineering by hydrogenation of dilute nitride semiconductors** — M. FELICI
- 9:15 ThM1c.2 **Frequency- and temperature-dependent conductivity at the metal-insulator transition in phosphorus doped silicon studied by far-infrared ellipsometry** — JOSEF HUMLICEK
- 9:30 ThM1c.3 **Photoluminescence dynamics in highly excited InGaN ternary alloys** — DAISUKE HIRANO
- 9:45 ThM1c.4 **Sensitive Ultrafast THz Mobility Measurement** — JAMES N HEYMAN
- 10:00 ThM1c.5 **Photoluminescence dynamics in GaAs along an optically induced Mott transition** — L. VIÑA
(*Invited talk*)

ThM1d: Physics in the QHE Regime II

Thursday 9:00–10:30; Rittersaal; Chair: G. Landwehr

- 9:00 ThM1d.1 **Seeing emergent phases in quantum Hall double layers** — VITTORIO PELLEGRINI
(*Invited talk*)
- 9:30 ThM1d.2 **Skyrmions in fractional quantum Hall regime: theory and experiment** — KAREL VYBORNÝ
- 9:45 ThM1d.3 **Missing conductivity peak in SAW measurement at $\nu = 2/3$** — DIMITRI DINI

- 10:00 ThM1d.4 **Terahertz Radiation-induced Resistance Oscillations And Zero-resistance States In High Mobility GaAs/AlGaAs Devices** — R G MANI
- 10:15 ThM1d.5 **Characterization and modelling of one-dimensional states in a bent quantum Hall system** — LUCIA STEINKE

ThM1e: Group IV: Surfaces and Bulk

Thursday 9:00–10:30; Geheime Ratstube; Chair: H. Kamimura

- 9:00 ThM1e.1 **Increasing Mobilities in some Semiconductors** — MARVIN L. COHEN
- 9:15 ThM1e.2 **Melting Kinetics of Confined Systems at the Nanoscale: Superheating and Supercooling** — I. D. SHARP
- 9:30 ThM1e.3 **Strain dependence of stabilities of Si-related defects in Si-oxide** — HIROYUKI KAGESHIMA
- 9:45 ThM1e.4 **Proton Diffusion in Amorphous SiO₂ and Hafnium Silicate by *Ab Initio* Molecular Dynamics** — JULIEN GODET
- 10:00 ThM1e.5 **Trimming and taming silicon surfaces: a first-principles study** — MARILIA J CALDAS
(Invited talk)

ThM2a: Optical Studies: Dots III

Thursday 11:00–12:30; Festsaal; Chair: A. Zunger

- 11:00 ThM2a.1 **A New Approach for Single-Photon Source using Quantum Dots at Telecommunication Wavelength** — KAZUYA TAKEMOTO
(Invited talk)
- 11:30 ThM2a.2 **Observation of a long-range electromagnetic interaction between semiconductor quantum dots** — ERIK W. BOGAART
- 11:45 ThM2a.3 **Electronic structure of long wavelength (>1.3 μ m) GaAsSb-capped InAs quantum dots** — DAVID J MOWBRAY
- 12:00 ThM2a.4 **Spectroscopy of single non-polar GaN/AlN quantum dots as a function of temperature and electrical bias** — FABIAN ROL
- 12:15 ThM2a.5 **Optical studies of nonlinear absorption in single InGaN/GaN quantum dots** — ROBERT A TAYLOR

ThM2b: Transport in Low Dimensional Systems

Thursday 11:00–12:30; Zeremoniensaal; Chair: J. Kotthaus

- 11:00 ThM2b.1 **Controlled Dephasing and Phase Recovery via Cross-Correlation Measurements** — IZHAR NEDER
(Invited talk)
- 11:30 ThM2b.2 **Strong effect of resonant impurities on Landau level quantisation** — GILES ALLISON
- 11:45 ThM2b.3 **Magneto-resistance studies on evenly curved Hall bars in InGaAs/GaAs-microtubes** — OLRİK SCHUMACHER
- 12:00 ThM2b.4 **Acoustic charge transport in a n-i-n three terminal device** — GIORGIO DE SIMONI
- 12:15 ThM2b.5 **Spin interference in silicon one-dimensional rings** — NIKOLAY T BAGRAEV

ThM2c: Semiconductor Spintronics and Spin Relaxation

Thursday 11:00–12:30; Gartensaal; Chair: M. Dyakonov

- 11:00 ThM2c.1 **Optical detection of spin injection in InAs based Spin-LEDs** — BRUCE D MC-COMBE
- 11:15 ThM2c.2 **Non-Markoffian Theory of Electron Spin Decoherence in a Single Quantum Dot** — TOSHIHIDE TAKAGAHARA
- 11:30 ThM2c.3 **Optically manipulating spins in quantum dots in semiconductors** — LU J SHAM
(Invited talk)

- 12:00 ThM2c.4 **Spin relaxation and dephasing in high mobility wide band gap GaN/AlGaN 2DEGs** — STEFAN SCHMULT
- 12:15 ThM2c.5 **Nanosecond excitonic spin relaxation in cubic GaN** — ATSUSHI TACKEUCHI

ThM2d: Electronic Transport in 1D Systems

Thursday 11:00–12:30; Rittersaal; Chair: F. Beltram

- 11:00 ThM2d.1 **Strongly confined tunnel-coupled one-dimensional electron systems** — SASKIA F. FISCHER
- 11:15 ThM2d.2 **Single-electron backscattering resonances in a small quantum ring interferometer caused by Friedel oscillations** — ZE D KVON
- 11:30 ThM2d.3 **Anisotropic Zeeman spin-splitting in one-dimensional ballistic hole system** — ROMAIN DANNEAU
- 11:45 ThM2d.4 **Superconducting Proximity Effect in Ge/Si Core/Shell Nanowires** — ANDY VIDAN
- 12:00 ThM2d.5 **Ballistic transport in hybrid nanostructures of paraelectric PbTe** — GRZEGORZ GRABECKI
(*Invited talk*)

ThM2e: Growth and Structural Studies of Nanosystems

Thursday 11:00–12:30; Geheime Ratstube; Chair: O.G. Schmidt

- 11:00 ThM2e.1 **Alloy Ordering in Core-Shell Nanowires** — NIKLAS SKÖLD
- 11:15 ThM2e.2 **ZnTe nanowires grown catalytically on GaAs (001) substrates by molecular beam epitaxy** — TOMASZ WOJTCWICZ
- 11:30 ThM2e.3 **Quantum dots with coherent interfaces between rocksalt-PbTe and zincblende-CdTe** — WOLFGANG HEISS
(*Invited talk*)
- 12:00 ThM2e.4 **AFM Quantitative Morphological Analysis of the Step Bunching Instability Formed on GaAs(110) During H-assisted MBE** — MIGUEL LUIS CRESPILO
- 12:15 ThM2e.5 **New approach to grow very thin, high Ge content and relaxed SiGe epilayers on SOI(001) substrate** — MAKSYM MYRONOV

FrM1a: 1D Transport and Optics

Friday 9:00–10:30; Festsaal; Chair: A. Sachrajda

- 9:00 FrM1a.1 **Unidirectional Injection and Relaxation of Ballistic electrons in Clean Quantum Wires** — HADAR STEINBERG
(*Invited talk*)
- 9:30 FrM1a.2 **Electron transport through isolated dopants in gated silicon nanowires.** — HERMANN SELLIER
- 9:45 FrM1a.3 **Spatially-Resolved Electronic and Vibronic Structure of CdS and GaAs/AlGaAs Nanowires** — L M SMITH
- 10:00 FrM1a.4 **Semiconductor Quantum Wires with Controlled Length and Confinement Potential** — QING ZHU
- 10:15 FrM1a.5 **Optical Properties and Electronic States in Strained InP/InAs/InP Core-multishell Heterostructure Nanowires** — JUNICHI MOTOHISA

FrM1b: Nitrides: Electronic Properties and Optical Studies

Friday 9:00–10:30; Zeremoniensaal; Chair: P. Koenraad

- 9:00 FrM1b.1 **Evidence for p-type InN** — W. WALUKIEWICZ
- 9:15 FrM1b.2 **Effects of nonlinear elasticity in nitride semiconductors and their nanostructures** — SLAWOMIR P. LEPKOWSKI
- 9:30 FrM1b.3 **Growth and material physics of InGaAsN for novel devices** — HENNING RIECHERT
(*Invited talk*)

- 10:00 FrM1b.4 **High photoluminescence efficiency III-nitride based quantum well structures emitting at 380 nm** — DARREN M GRAHAM
- 10:15 FrM1b.5 **Luminescence efficiency and gain mechanisms in field-free InGaN/GaN heterostructures grown on sapphire or bulk GaN substrate** — A. HOFFMANN

FrM1c: Bulk: Excitons, Lattice and Carrier Dynamics

Friday 9:00–10:30; Gartensaal; Chair: P.O. Holtz

- 9:00 FrM1c.1 **Direct Observation of the Donor Nuclear Spin in a Near-Gap Bound Exciton Transition: ^{31}P in Highly Enriched ^{28}Si** — M. L. W. THEWALT
(*Invited talk*)
- 9:30 FrM1c.2 **Long wave phonons in random (Ga,In)P and spontaneously ordered GaInP₂: the percolation approach** — ALLAL CHAFI
- 9:45 FrM1c.3 **Lattice Dynamics of Hexagonal-BN by Inelastic X-ray Scattering** — JORGE SER-RANO
- 10:00 FrM1c.4 **Coherence of Elementary Excitations in Disordered Electron Systems** — YURI A PUSEP
- 10:15 FrM1c.5 **Transient response of photoexcited electrons: absolute negative conductivity and Hall oscillations** — OLEG E RAICHEV

FrM1d: Organic Semiconductors

Friday 9:00–10:30; Rittersaal; Chair: E. Molinari

- 9:00 FrM1d.1 **Coherent exciton state in an organic quantum wire** — FRANÇOIS DUBIN
- 9:15 FrM1d.2 **Sub-micron organic Thin-Film-Transistors manufactured by Nano-Imprint-Lithography** — GÜNTHER LEISING
- 9:30 FrM1d.3 **Perovskite organic semiconductor: a way to hybrid microcavities** — JEAN-SÉBASTIEN LAURET
- 9:45 FrM1d.4 **Non-radiative energy transfer from an inorganic quantum well to a polymer overlayer** — GRIGORIOS ITSKOS
- 10:00 FrM1d.5 **Highly efficient organic semiconductor devices** — KARL LEO
(*Invited talk*)

FrM1e: New Materials, Concepts and Techniques

Friday 9:00–10:30; Geheime Ratstube; Chair: D.K. Ferry

- 9:00 FrM1e.1 **Nanomagnet arrays fabricated on self-organized semiconductor templates** — CHRISTIAN TEICHERT
- 9:15 FrM1e.2 **Magnetotransport of two-dimensional electrons at *in situ* cleaved InAs surfaces** — TOSHIMITSU MOCHIZUKI
- 9:30 FrM1e.3 **Transition-metal silicides as novel materials for magnet-semiconductor heterostructures** — PETER KRATZER
(*Invited talk*)
- 10:00 FrM1e.4 **Synthesis and Optical Properties of Multiband III-V Semiconductor Alloys** — KIN MAN YU
- 10:15 FrM1e.5 **Dilute Ga(AsN) alloys: a new negative differential velocity concept** — GILES ALLISON

FrM2f: Bulk

Friday 11:00–12:30; Poster

- 11:00 FrM2f.1 **Pressure induced destruction of the Mott-Hubbard insulating state in manganese monochalcogenides with NaCl structure** — YOSHIMI MITA
- 11:00 FrM2f.2 **Anomalous PL brightening inside a current density filament in n-GaAs under a pulsed electric field** — KAZUNORI AOKI
- 11:00 FrM2f.3 **Difference in nature of photoinduced defects and structural instability between surroundings of Si-H and Si-H₂ bonds in amorphous silicon** — HIDETOSHI OHEDA
- 11:00 FrM2f.4 **Link between lifetime and scattering rates for elementary and composite excitons** — MONIQUE COMBESCOT

- 11:00 FrM2f.5 **The ki_3 cancellation problem solved by novel tools** — MONIQUE COMBESCOT
- 11:00 FrM2f.6 **Do strong excitonic effects violate the critical-point analysis of optical spectra? // New insight from parameter-free calculations** — FRIEDHELM BECHSTEDT
- 11:00 FrM2f.7 **Ab initio calculations of zero-field spin splitting in zinc-blende semiconductors** — JACEK A MAJEWSKI
- 11:00 FrM2f.8 **Transient Megagauss Fields on Indiumantimonide and Mercury cadmium telluride** — STEFAN HANSEL
- 11:00 FrM2f.9 **Resolved Fine Structure of the Boron Bound Exciton in Highly Enriched ^{28}Si Using Single Frequency Laser Spectroscopy** — A. YANG
- 11:00 FrM2f.10 **Optical Properties of a CuAu Phase of AgGaSe_2 Grown on [100] GaAs substrate** — PETER YU
- 11:00 FrM2f.11 **Electroreflectance and photoluminescence study of InN and InGaN** — HYEONSIK CHEONG
- 11:00 FrM2f.12 **Effect of local nanoscale ferromagnetic ordering on thermoelectric and magnetotransport properties of amorphous $(\text{Gd},\text{Y})_x\text{Si}_{1-x}$ alloys.** — NIKOLAI K. CHUMAKOV
- 11:00 FrM2f.13 **Trembling motion (Zitterbewegung) of electrons in semiconductors** — TOMASZ M RUSIN
- 11:00 FrM2f.14 **Superconductivity of InN as an intrinsic property** — TAKASHI INUSHIMA
- 11:00 FrM2f.15 **The optical properties of GaSe single crystals thermally annealed in C_{60} vapors** — ELMIRA CUCULESCU
- 11:00 FrM2f.16 **Hall effect and conductivity in the superconducting-insulator transition region in $\text{Pb}_2\text{Sn}_{1-z}\text{Te}:\text{In}$.** — MAXIM S KONONCHUK
- 11:00 FrM2f.17 **Interband breakdown in a Kane semiconductor with a degenerate hole distribution** — ALEXEY ARTAMKIN
- 11:00 FrM2f.18 **Failure of the two-level repulsion-model in describing the conduction band edge of $\text{GaN}_x\text{P}_{1-x}$.** — MARTIN GÜNGERICH
- 11:00 FrM2f.19 **Recombination kinetics of the dielectric metastable EH-liquid and photoluminescence spectra of Ge:Sb samples** — YURII A MITYAGIN
- 11:00 FrM2f.20 **Polarized photoluminescence of ordered GaInP2 layers: temperature and polarization angular dependencies** — TATIANA PRUTSKIJ
- 11:00 FrM2f.21 **Atom relaxation of H in silicon** — KOUN SHIRAI
- 11:00 FrM2f.22 **High-order THz-sideband generation in semiconductors** — REN-BAO LIU
- 11:00 FrM2f.23 **Influence of holes on optically enhanced nuclear spin polarization in semiconductors** — DENIS SCALBERT
- 11:00 FrM2f.24 **Positive magnetoresistance behaviour in the variable range hopping in insulating n-type InP** — ABDELHAMID EL KAAOUACHI
- 11:00 FrM2f.25 **Lifetime of yellow 1S-paraexcitons in Cu_2O : A high resolution spectroscopy study** — JAN BRANDT
- 11:00 FrM2f.26 **Femtosecond-scale build-up of inverted phonon distribution in GaN** — ROMUALD BRAZIS
- 11:00 FrM2f.27 **Ab initio Calculations of the Vibrational Modes of MnAs and $\text{Ga}_{1-x}\text{Mn}_x\text{As}$** — HORACIO W. L. ALVES
- 11:00 FrM2f.28 **A solution in 3 dimensions for current in a semiconductor under high level injection from a point contact** — MIKE W DENHOFF
- 11:00 FrM2f.29 **Evidence for novel hydrogen-nitrogen complexes in dilute nitrides** — G. BISOGNIN
- 11:00 FrM2f.30 **Determination of Ge concentration profile in graded SiGe layers using diffuse x-ray scattering** — STANISLAV DANIŠ
- 11:00 FrM2f.31 **Spin-dependent phenomena in new nanoobject - 2d layer on the internal interface Te-SiO_2** — NIKITA S AVERKIEV
- 11:00 FrM2f.32 **Photoluminescence under magnetic field and hydrostatic pressure in $\text{Ga}(\text{AsN})$ for probing the compositional dependence of carrier effective mass and gyromagnetic ratio** — F. MASIA
- 11:00 FrM2f.33 **Universal Nonequilibrium Conductance Peak in Ferroelectrics and Quantum-Paraelectrics** — YUKIO WATANABE
- 11:00 FrM2f.34 **Sensitization effect of Yb doping on Er-related $1.54\mu\text{m}$ emissions in nanocrystalline Si thin films** — XINWEI ZHAO

- 11:00 FrM2f.35 **Influence of oxygen vacancies on time-resolved photo-luminescence in photo-catalytic anatase TiO₂ film** — MASAKO GOTO
- 11:00 FrM2f.36 **Processes of Stimulated Emission in ZnO** — CLAUS KLINGSHIRN
- 11:00 FrM2f.37 **Coherent phonon oscillations in zinc blende and wurtzite wide-gap semiconductors** — HIDEYUKI KUNUGITA
- 11:00 FrM2f.38 **Decoherence suppression of excitons in semiconductor using sequential femtosecond pulses** — TADASHI KISHIMOTO
- 11:00 FrM2f.39 **Investigation of compositional disorder in GaAsN:H** — A. POLIMENI
- 11:00 FrM2f.40 **Simulations of Deformation and Fracture Mechanisms in Amorphous and Nanostructured Carbon** — PANTELIS C KELIRES
- 11:00 FrM2f.41 **First-principles study on dielectric properties of semiconductor nano-scale films** — MASATO ISHIKAWA
- 11:00 FrM2f.42 **Semiempirical tight binding modeling of electronic band structure of III-V nitride Heterostructures** — HIKMET H. GÜREL
- 11:00 FrM2f.43 **Ab-initio calculations of bulk lead chalcogenides and their heterostructures** — KERSTIN HUMMER
- 11:00 FrM2f.44 **Piezoresistance Effect of n-type Silicon; Temperature and Concentration Dependencies, Stress Dependent Effective Masses** — YOZO KANDA
- 11:00 FrM2f.45 **Anisotropy of Semiconductor Gap States Probed by Resonant Tunneling** — SEBASTIAN LOTH
- 11:00 FrM2f.46 **Electrical percolation effects in amorphous Ge₂Sb₂Te₅ thin films during the crystallization phase transformation** — DAE-HWANG KIM
- 11:00 FrM2f.47 **Exciton-polariton effects in high purity ZnTe** — EVGENY E. ONISHCHENKO
- 11:00 FrM2f.48 **InGaAsSb p-n Heterojunctions Studied by Photoluminescence and Photoacoustic Spectroscopies for Photovoltaic Applications** — MA. LUCERO GOMEZ-HERRERA
- 11:00 FrM2f.49 **Impurity band of dilute-nitride InGaAs** — HORIA-EUGEN PORTEANU
- 11:00 FrM2f.50 **Phonons and phonon-mixing in ZnSe isotopic crystals, pressure-cycled domains, and nanorods** — BERNARD A WEINSTEIN
- 11:00 FrM2f.51 **Photoexcitation Spectroscopy of Cyclotron Resonance in Dilute-Nitrogen Alloys** — HORIA-EUGEN PORTEANU
- 11:00 FrM2f.52 **Dielectric function and critical-point parameters of biaxially stressed Si:C alloys on Si (001)** — STEFAN ZOLLNER
- 11:00 FrM2f.53 **A Raman study of order-disorder phenomena in compounds Zn_{1-x}Mn_xGa₂Se₄** — PABLO ALONSO-GUTIÉRREZ
- 11:00 FrM2f.54 **Two-dimensional metal-insulator transition in gated silicon inversion layers according to the Dipole trap model** — GERHARD BRUNTHALER
- 11:00 FrM2f.55 **Anisotropy of the Γ -point electron effective mass in hexagonal InN** — T. HOFMANN

FrM2g: Defects and Impurities

Friday 11:00–12:30; Poster

- 11:00 FrM2g.1 **Influence of residual point defects on the stability of electrical junctions** — MAO-NAN CHANG
- 11:00 FrM2g.2 **Identification of point defects in Ga(Al)NAs alloys** — WEIMIN M CHEN
- 11:00 FrM2g.3 **Spin structure of A(+) centers in GaAs/AlGaAs QW-s.** — YURI L. IVANOV
- 11:00 FrM2g.4 **Gettering Mechanism of 3d Transition Metals studied by First principles Calculation** — KAZUHIITO MATSUKAWA
- 11:00 FrM2g.5 **Low frequency dielectric anomaly in Pb_{0.75}Sn_{0.25}Te(In).** — LUDMILA I. RYABOVA
- 11:00 FrM2g.6 **V, Cr, Mn and Co impurities in semimagnetic semiconductors, based on ZnSe, ZnS, and ZnO: X-ray, optical, and magnetic research** — THORSTEN SCHMITT
- 11:00 FrM2g.7 **ODMR of impurity centers embedded in silicon microcavities** — TATIANA N SHEL'YKH
- 11:00 FrM2g.8 **Shallow Impurity Absorption Spectroscopy in Isotopically Enriched Silicon** — M. STEGER

- 11:00 FrM2g.9 **Electrical isolation of low dimensional structures in GaAs by light ion irradiation** — HENRI BOUDINOV
- 11:00 FrM2g.10 **Transport properties of PbTe(Mn) and PbTe(Mn, V).** — ALEXEY I. ARTAMKIN
- 11:00 FrM2g.11 **Very Large-Scale First-principles Simulation on Earth Simulator** — TAKENORI YAMAMOTO
- 11:00 FrM2g.12 **Phonon induced resonances in impurity photocurrent spectra of bulk semiconductors and quantum wells doped by shallow donors** — VLADIMIR YA ALESHKIN
- 11:00 FrM2g.13 **Electron trap energy levels in indium doped Cd_{0.85}Mn_{0.15}Te** — EWA PLACZEK-POPKO
- 11:00 FrM2g.14 **Structure and vibrational properties of Mn-H complexes in Mn_xGa_{1-x}As dilute magnetic semiconductors.** — ALDO AMORE BONAPASTA
- 11:00 FrM2g.15 **Stabilizing effects of *n*-type doping on Fe and Mn acceptors in III-V compounds.** — ALDO AMORE BONAPASTA
- 11:00 FrM2g.16 **Relationship between the structure and the doping mechanisms in polycrystalline CdTe:Cl** — VINCENT CONSONNI
- 11:00 FrM2g.17 ***Ab initio* studies of magnetism induced by vacancies in graphene** — MARCOS VERÍSSIMO-ALVES
- 11:00 FrM2g.18 **Optical Signatures of Magnesium Related Acceptors in GaN** — BO A MONEMAR
- 11:00 FrM2g.19 **Room temperature electroluminescence in the mid-infrared (2 to 3 microns) from bulk chromium-doped ZnSe** — JULIEN JAECK
- 11:00 FrM2g.20 **Symmetry of native defects in non-cubic semiconductors** — SUSANNE SIEBENTRITT
- 11:00 FrM2g.21 **Anomalies and New Phenomena in the Terahertz Spectra of Shallow Centres in Silicon and Germanium** — RODNEY E VICKERS
- 11:00 FrM2g.22 **Confined Electronic Structures of Nitrogen Isoelectronic Centers in GaAs Grown by Atomically Controlled Doping Technique** — TAKASHI KITA
- 11:00 FrM2g.23 **Microscopic Mechanism of Phosphorus Diffusion in Silicon** — HIROYUKI NAKAYAMA
- 11:00 FrM2g.24 **Electric structure of shallow muonium in titanium dioxide** — KOICHIRO SHIMOMURA
- 11:00 FrM2g.25 **Phonon-assisted electron transitions from valence band to ground state of acceptors in Si via even- and odd-parity excited states** — BORIS A ANDREEV
- 11:00 FrM2g.26 **Potential fluctuations in 2D MBE CdTe/CdMgTe quantum well - experimental proof of the nature of fluctuations** — KRZYSZTOF KARPIERZ
- 11:00 FrM2g.27 **Electrical activation of Fe impurities introduced in III-V semiconductors by high temperature ion implantation.** — TIZIANA CESCO
- 11:00 FrM2g.28 **THz silicon laser based on arsenic donor transitions** — VALERY N SHASTIN
- 11:00 FrM2g.29 **Hydrogen clusters in dilute nitride alloys** — ALDO AMORE BONAPASTA
- 11:00 FrM2g.30 **First-principles study of stair-rod dislocations in Si and GaAs stacking-fault tetrahedron defects** — RYO KOBAYASHI
- 11:00 FrM2g.31 **Theoretical Model of Shallow Acceptor States in SiGe Grown on Si** — SHUN-TUNG YEN
- 11:00 FrM2g.32 **Mn in GaAs and Ge Nanowires** — ADALBERTO FAZZIO
- 11:00 FrM2g.33 **Direct observation of picosecond-scale energy-transfer processes in Er,O-codoped GaAs by pump-probe reflection technique** — YASUFUMI FUJIWARA
- 11:00 FrM2g.34 **Process of diffusion of interstitial oxygen atoms and interstitial hydrogen molecules in silicon and germanium crystals: quantumchemical simulation** — VASILII GUSAKOV
- 11:00 FrM2g.35 **Theory of impurity states in coupled quantum wells and superlattices and their infrared absorption spectra** — DOMINIK STEHR
- 11:00 FrM2g.36 **High-Pressure Luminescence Studies of Intrashell Transitions of Cr²⁺ Ions in ZnSe:Cr Crystals** — SERGIY TRUSHKIN
- 11:00 FrM2g.37 **Deep level emission and electrical activity of chlorine in epitaxial ZnSe thin films** — MIGUEL GARCÍA-ROCHA
- 11:00 FrM2g.38 **Quantification of AlGaIn-related deep levels in AlGaIn/GaN heterostructures using deep level optical spectroscopy** — ANDREW ARMSTRONG

FrM2h: Wide Gap Semiconductors

Friday 11:00–12:30; Poster

- 11:00 FrM2h.1 **Theoretical support for the smaller band gap bowing in wurtzite InGaN alloys** — LARA K. TELES
- 11:00 FrM2h.2 **Thermal boundary resistance between GaN layer and different substrates determined by transient electrical and optical interferometry methods.** — DIONYZ POGANY
- 11:00 FrM2h.3 **Influence of surface trapping on determination of electron saturation velocity in AlGaN/GaN heterostructure.** — JAN KUZMIK
- 11:00 FrM2h.4 **Optical Properties and Effective Carrier Masses of Rutile SnO₂ as Obtained from Full Relativistic *Ab Initio* Calculations** — ANTONIO T LINO
- 11:00 FrM2h.5 **Optoelectronic Applications of ZnO/ZnMgO Quantum Well Lasers in the Blue and the UV Spectral Regions** — SEOUNG-HWAN PARK
- 11:00 FrM2h.6 **Effect of H and Si impurities on device performance based on HfO₂ gate oxide** — JOONGOO KANG
- 11:00 FrM2h.7 **Biexciton emission and lasing of superfine ZnO particle in a cavity** — YOSHIYUKI HARADA
- 11:00 FrM2h.8 **Energy transfer processes between extended band states and Te-related localized states in metastable ZnS_{1-x}Te_x** — PETER J. KLAR
- 11:00 FrM2h.9 **Physical reason for the energy gap dispersion of Ga_xAl_{1-x}N** — LUIZ G FERREIRA
- 11:00 FrM2h.10 **In-enriched nanostructures within inhomogeneous InGaN and InN** — SHUBINA T. V.
- 11:00 FrM2h.11 **Temperature-dependent band-gap and excitonic properties of ZnO** — RÜDIGER SCHMIDT-GRUND
- 11:00 FrM2h.12 **Screening Influence on the Binding Energies of Excitons in Quantum Wells under Pressure** — SHILIANG BAN
- 11:00 FrM2h.13 **Influence of Plasmon Scattering on Low Field Electron Mobility in Wurtzite and Zincblend GaN** — HADI ARABSHAHI
- 11:00 FrM2h.14 **Defect emission in ZnO nanorods fabricated by hydrothermal method** — ALEXSANDRA B DJURISIC
- 11:00 FrM2h.15 **Influence of the wire diameter on the optical properties of individual ZnO nanowires** — L. WISCHMEIER
- 11:00 FrM2h.16 **Photoluminescence study of nitrogen-related states in ZnSe** — VADIM P. SIRKELI
- 11:00 FrM2h.17 **Acceptor level due to carbon in a (1-101)AlGaN** — NOBUHIKO SAWAKI
- 11:00 FrM2h.18 **Heterojunctions based on Silicon Carbide** — ALEXANDER A. LEBEDEV
- 11:00 FrM2h.19 **Angular dependent magneto-photoluminescence spectra of ZnO single crystal thin film** — LU DING
- 11:00 FrM2h.20 **Coupled longitudinal optical phonon-plasmon modes in InN nanocolumns** — SNEZANA LAZIC
- 11:00 FrM2h.21 **Polarization dependent spectroscopic study of InN** — JAYEETA BHATTACHARYYA
- 11:00 FrM2h.22 **Optical characterisation of low-temperature grown ZnO nanorods.** — CHEGNUI BEKENY
- 11:00 FrM2h.23 **Persistent photo-conductivities from extended defects in GaN films with high resistivities** — XINHUA LI
- 11:00 FrM2h.24 **Comparative study on the impact of TiN, and Mo metal gates on MOCVD-grown HfO₂ and ZrO₂ high-k dielectrics for CMOS technology** — STEPHAN ABERMANN
- 11:00 FrM2h.25 **Population dynamics of biexcitons and single excitons in AlGaN ternary alloys** — YOICHI YAMADA
- 11:00 FrM2h.26 **Dislocation-density dependent carrier lifetimes and stimulated recombination thresholds in GaN** — KESTUTIS JARAŠIUNAS
- 11:00 FrM2h.27 **Polarization- and time- resolved photoluminescence studies of free excitons in a 1-mm-thick HVPE GaN film** — TOROPOV A. A.
- 11:00 FrM2h.28 **Control of electronic properties of high-k gate oxides with doping from first-principles calculation** — TATSUO SCHIMIZU
- 11:00 FrM2h.29 **Evaluation of concentration of deep levels from photoelectric measurements in wide gap high-resistivity semiconductors** — JAN FRANČ

- 11:00 FrM2h.30 **Measurement of deep intrinsic defects in thin ZnO films via mid-infrared photocurrent spectroscopy** — HEIKO FRENZEL
- 11:00 FrM2h.31 **Tunneling in dislocation-free GaN/AlGaIn double-barrier diodes grown on bulk GaN** — SEBASTIAN GOLKA
- 11:00 FrM2h.32 **Radiative recombination and nanosecond exciton lifetime in GaN freestanding film via two-photon excitation** — YONGCHUN ZHONG
- 11:00 FrM2h.33 **The band bending effects on optical spectra of thin epilayers and nano-size samples of n-InN** — ALBERT A KLOCHIKHIN
- 11:00 FrM2h.34 **Atomistic model of the 4H(1000)SiC-SiO₂ interface: structural and electronic properties** — FABIEN DEVYNCK
- 11:00 FrM2h.35 **A comparative study of recombination, gain, and lasing mechanisms in differently strained GaN-based heterostructures with In-rich nanoclusters** — BERND SCHINELLER
- 11:00 FrM2h.36 **Electronic structure and vertical transport in single-barrier AlN/GaN heterostructures** — SYLVAIN LECONTE
- 11:00 FrM2h.37 **Frequency Dependence of the Dielectric Constants and of the Reflectivity for HfO₂ and ZrO₂ from First-Principles Calculations** — HORACIO W. L. ALVES
- 11:00 FrM2h.38 **High quality AlGaIn/AlGaIn distributed Bragg reflectors and microcavities** — OLEG MITROFANOV
- 11:00 FrM2h.39 **Effect of Ga adlayer on strain and nucleation rates during GaN quantum dot growth on AlN** — GREGOR KOBLMUELLER
- 11:00 FrM2h.40 **Temperature-dependent radiative lifetimes of excitons in non-polar GaN/AlGaIn quantum wells** — SERGEY RUDIN
- 11:00 FrM2h.41 **Hall Effect and Luminescence Measurements on Si-implanted Al_xGa_{1-x}N** — MEE-YI RYU
- 11:00 FrM2h.42 **Oblique-incidence infrared reflection and Raman scattering in thin ZnO films deposited on sapphire by gas-source MBE** — NORITAKA KURODA
- 11:00 FrM2h.43 **Polarization-induced high-quality two-dimensional electrons in ZnO/ZnMgO heterostructures** — SHIGEHICO SASA
- 11:00 FrM2h.44 **Theoretical Study of the Nitrogen Adsorption on Si and GaAs (100) Surfaces** — HORACIO W. L. ALVES
- 11:00 FrM2h.45 **Thermoelectric and electrical properties of GaN and InN single crystals** — TAKAYUKI MATSUMOTO
- 11:00 FrM2h.46 **Recursive Insulator-Metal Transition and Conductance Oscillation in Ferroelectric Films** — YUKIO YUKIO WATANABE
- 11:00 FrM2h.47 **Calculated optical properties of wurtzite GaN and ZnO** — DANIEL FRITSCH
- 11:00 FrM2h.48 **Influence of the host lattice on the O-H interaction in II-VI semiconductors** — M. FELICI
- 11:00 FrM2h.49 **Symmetry of the conduction band minima in AlP** — MYKHAYLO P. SEMTSIV
- 11:00 FrM2h.50 **Kinetics of relaxation and recombination of free and bound excitons in ZnO: inter-valence band scattering and carrier capture by impurities** — FRANK BERTRAM
- 11:00 FrM2h.51 **Charge transport and filament formation in ZnS:Mn thin film structures** — KARSTEN MEYER
- 11:00 FrM2h.52 **Exciton Spin Dynamics in ZnO** — THIERRY AMAND
- 11:00 FrM2h.53 **Optical Characterization of GaS Thin Films, Components of GaS/CdTe Heterojunctions** — GEORGE G RUSU
- 11:00 FrM2h.54 **Temperature dependence of carrier dynamics in AlGaIn alloys with enhanced light emission through nanoscale compositional inhomogeneities** — GREGORY A. GARRETT
- 11:00 FrM2h.55 **Determination of internal electric field in ZnO/(Zn,Mg)O quantum wells from time resolved photoluminescence experiments.** — THIERRY GUILLET
- 11:00 FrM2h.56 **Dynamic and energy transfer processes of excitonic states in ZnO** — MARKUS R. WAGNER
- 11:00 FrM2h.57 **GaN and GaN_xAs_{1-x} epilayers on Si and GaAs substrates with porous and two-layer buffer** — YURY NIKOLAEVICH BUZYIN
- 11:00 FrM2h.58 **Electro-modulated absorption in GaN/AlN superlattices** — DANIEL - HOFSTETTER
- 11:00 FrM2h.59 **Towards efficient p-type doping of ZnO with group-V atoms: N versus As and Sb** — ELIANA KAMINSKA

FrM2i: Molecular systems and organic semiconductors

Friday 11:00–12:30; Poster

- 11:00 FrM2i.1 **Absorption of Frenkel Excitons in PTCDA thin films, in PTCDA/Alq3 multi-layers and in co-deposited films** — HANS-PETER WAGNER
- 11:00 FrM2i.2 **Fabrication and Electrical Characterization of Lambda DNA Field Effect Transistors** — JONG-SEUNG HWANG
- 11:00 FrM2i.3 **Highly ordered thin crystal films: charge transport, optical film properties and applications** — ALEXANDER E. KOZHANOV
- 11:00 FrM2i.4 **Theoretical study of carrier-vibration coupling effect on carrier transport process in organic devices** — KUNIHIRO MITSUTAKE
- 11:00 FrM2i.5 **Nonlinear spin injection into a DNA chain** — XUE FENG WANG
- 11:00 FrM2i.6 **Novel gold nanoparticles/conjugated molecules network structures fabricated by self-assembling process** — TETSUO AKASAKA
- 11:00 FrM2i.7 **Surface nanopatterning through styrene adsorption on Si(100)** — ARRIGO CALZOLARI
- 11:00 FrM2i.8 **Reduced sheet resistance in pentacene field-effect transistors using thiol-modified electrodes** — D. V. PHAM
- 11:00 FrM2i.9 **Novel FET structures based on bundled and single C₆₀ nanowhiskers** — YUICHI OCHIAI
- 11:00 FrM2i.10 **Holographic nano-patterning based on photo-cross-linkable light emitting polyacetylenes** — KAM SING WONG
- 11:00 FrM2i.11 **Third harmonic generation measurements on organic semiconductor films** — EMMANUELLE DELEPORTE
- 11:00 FrM2i.12 **Transfer-printing-induced improvement of pentacene thin films on plastic substrates** — YUE SHAO
- 11:00 FrM2i.13 **Atomistic picture of electromigration process and its application to high-yield fabrication of nanogap electrodes** — AKINORI UMENO
- 11:00 FrM2i.14 **On the D.C. Conduction Mechanism in N-(p-Nitrobenzoyl) Asparagic Acid Derivatives Thin Films** — GHEORGHE I RUSU
- 11:00 FrM2i.15 **Transport properties through single molecules on the semiconducting electrodes — ab initio calculation study** — KENJI HIROSE
- 11:00 FrM2i.16 **Adsorption and conductance of BDT on the Au(111) surface** — RENATO B. PONTES
- 11:00 FrM2i.17 **How to tailor excitonic effects in organic semiconductors?** — CLAUDIA AMBROSCH-DRAXL
- 11:00 FrM2i.18 **Spatially resolved optical properties of organic semiconducting thin films** — PAUL LACHARMOISE
- 11:00 FrM2i.19 **Para-sexiphenyl thin films grown on dielectric substrates** — YUE HOU
- 11:00 FrM2i.20 **Controlling molecular orientation of sexiphenyl thin films** — GREGOR HLAWACEK
- 11:00 FrM2i.21 **Ab initio electronic and transport properties of a hybrid Si/organic/Si interface** — BENEDETTA BONFERRONI
- 11:00 FrM2i.22 **Theoretical study of the organic semiconductor polyaniline** — LILIANA Y. A. DÁVILA
- 11:00 FrM2i.23 **New energy modulated heterostructures for charge transfer and confinement based on conjugated polymers** — FRANCISCO E. G. GUIMARÃES
- 11:00 FrM2i.24 **On the Electronic Transport in Poly(azomethine sulfone) films** — GHEORGHE I. RUSU

FrM2j: Nanostructures: one- and zero-dimensional systems: Electronic properties, transport: Wires

Friday 11:00–12:30; Poster

- 11:00 FrM2j.1 **Anomalous field-effect characteristics in double-wall carbon nanotubes due to proximity effect** — XIANG RONG WANG
- 11:00 FrM2j.2 **Helical nanostructures and Aharonov-Bohm quantum rings in a transverse electric field** — MIKHAIL E PORTNOI

- 11:00 FrM2j.3 **The metallic-like temperature dependence of the conductivity in 2D** — GRIGORY M MINKOV
- 11:00 FrM2j.4 **Magneto-Magnon Resonances in Diluted Magnetic Semiconductors Quantum Wires** — EDUARDO S SOUTO
- 11:00 FrM2j.5 **Spin polarization and structure of edge channels in quantum wires** — IGOR V ZOZOULENKO
- 11:00 FrM2j.6 **Anomalous Impedance in High Frequency Measurements of Quantum Point Contacts** — JONATHAN P BIRD
- 11:00 FrM2j.7 **Pseudo-intersubband transitions in lateral superlattices with fluctuating period** — HIROSHI TSUKAHARA
- 11:00 FrM2j.8 **Magnetic field symmetry and phase rigidity of the nonlinear conductance in a ring** — RENAUD LETURCQ
- 11:00 FrM2j.9 **A Study of alloyed nanowires from two perspectives: approximate dispersion diagrams and transmission coefficients** — GERHARD KLIMECK
- 11:00 FrM2j.10 **Novel Interaction Phenomena in Non-Equilibrium Transport in One-Dimensional Quantum Wires** — TAKAHIRO MORIMOTO
- 11:00 FrM2j.11 **Scanning Gate Imaging of Transport within InGaAs QPC** — NOBUYUKI AOKI
- 11:00 FrM2j.12 **Electrical properties of three-terminal InAs nanowire junctions** — HONGQI XU
- 11:00 FrM2j.13 **Ballistic rectification in four-terminal fork-shaped Si/SiGe junctions** — EGMONT FRITZ
- 11:00 FrM2j.14 **Enhanced rectification efficiency in cascaded ballistic GaAs/AlGaAs rectifiers** — ULRICH WIESER
- 11:00 FrM2j.15 **Graphene-based quantum wires** — JOÃO M PEREIRA
- 11:00 FrM2j.16 **Spin and momentum effects on focusing in one-dimensional systems** — KAVITHA KISHEN
- 11:00 FrM2j.17 **Inelastic transport in low dimensional systems: An application to DNA chains and molecular wires** — RAFAEL R REY-GONZÁLEZ
- 11:00 FrM2j.18 **Hopping conduction in chain-like Silicon nanowires** — MITSURU INADA
- 11:00 FrM2j.19 **Gauge invariant envelope function theory and prediction of g-factors in nanowires** — RICHARD MORSCHL
- 11:00 FrM2j.20 **Transport spectroscopy of in-plan dual electron waveguides** — JEAN-LAURENT DEBORDE
- 11:00 FrM2j.21 **First-principles theory of inelastic transport and local heating in atomic gold wires** — THOMAS FREDERIKSEN
- 11:00 FrM2j.22 **Spin qubits in Si nanowires** — FLORIS A ZWANENBURG
- 11:00 FrM2j.23 **Quantised Conductance in InSb/InAlSb quantum wells using surface metal split-gates.** — JAMES M S ORR
- 11:00 FrM2j.24 **Low-frequency Noise Properties of GaN Nanowires** — L. C. LI
- 11:00 FrM2j.25 **Quantized conductance without the reservoir picture** — BART SOREE
- 11:00 FrM2j.26 **Quantum dots in InAs nanowires defined by local gates** — MARC SCHEFFLER
- 11:00 FrM2j.27 **Conductance of Disordered Wires with Symplectic Symmetry: Random Matrix Approach and Numerical Simulation** — HIROSHI SAKAI
- 11:00 FrM2j.28 **Si and SiGe Nanowires** — ANTONIO J. R. DA SILVA
- 11:00 FrM2j.29 **Anomalous 0.7 Electrical Conductance Quantization in Nano-scale Constriction; Revisited** — YUNCHUL CHUNG
- 11:00 FrM2j.30 **Comparison of device performance and scaling properties of cylindrical-nanowire (CNW) and carbon-nanotube (CNT) transistors** — ELENA GNANI
- 11:00 FrM2j.31 **Properties of the silicon nanowhiskers grown by molecular-beam epitaxy** — OLGA V NAUMOVA
- 11:00 FrM2j.32 **High fidelity single-shot read-out of charges and spins in a few-electron quantum dot** — IVO T. VINK
- 11:00 FrM2j.33 **Electric-field induced exciton breakdown in radial polarized nanorings** — ZDENKA BARTICEVIC
- 11:00 FrM2j.34 **Conductance fluctuations in a quantum wire with a non-uniform scattering potential** — DAVID W HORSELL

- 11:00 FrM2j.35 **Surface Passivated InAs/InP core/shell Nanowires** — JURIAAN VAN TILBURG
- 11:00 FrM2j.36 **Resistance switching induced by an electric field in ZnO:Li,Fe nanowires** — GENNADY N PANIN

FrM2k: Nanostructures: one- and zero-dimensional systems: Nanocrystals

Friday 11:00–12:30; Poster

- 11:00 FrM2k.1 **Nanocrystals as Precursors for Flexible Functional Films through Nanocrystal Plasma Polymerization** — LUDOVICO CADEMARTIRI
- 11:00 FrM2k.2 **Role of a Single Dopant in Binary and Ternary Nanocrystals** — RAMESHWAR N BHARGAVA
- 11:00 FrM2k.3 **Physical Properties of Quantum-Confined Europium Sulfide Nanocrystals** — MARCELA L REDÍGOLO
- 11:00 FrM2k.4 **Optical imaging with a single CdSe nanocrystal** — SERGE HUANT
- 11:00 FrM2k.5 **Stepwise Assembly of Eu₂O₃ Nanocrystals and Nanoneedles** — SAMEER V MAHAJAN
- 11:00 FrM2k.6 **The whispering gallery effect in zinc oxide micro- and nanoresonators** — THOMAS NOBIS
- 11:00 FrM2k.7 **Hybrid excitons in semiconductor-meal nanoparticle assemblies** — ALEXANDER GOVOROV
- 11:00 FrM2k.8 **Ballistic effect and optical properties of Si nanocrystallite structures** — TATIANA V. TORCHYNSKA
- 11:00 FrM2k.9 **Ge quantum dots in GeO₂: synthesis, properties, applications** — GOROKHOV B EUGENI
- 11:00 FrM2k.10 **Synthesis of Si nanocrystals in silicon oxynitride matrix by PECVD and their optical and structural properties** — RONG-JUN ZHANG
- 11:00 FrM2k.11 **Effect of external electric field on photoluminescence of silicon nanocrystals** — KONSTANTIN S ZURAVLEV
- 11:00 FrM2k.12 **Optical excitation and energy transfer of Eu³⁺-doped CdS nanocrystals in reverse micelles** — KIYOTO MATSUSHI
- 11:00 FrM2k.13 **Interface Structure, Distortions, and Electronic Properties of Silicon Nanocrystals in Amorphous Silica** — PANTELIS C KELIRES
- 11:00 FrM2k.14 **Excitonic features in CdTe spherical, rod- and tetrapod- shaped nanocrystals: the role of the Stark-effect** — DAVIDE TARI
- 11:00 FrM2k.15 **Electric field dependent photoluminescence studies of photorefractive polymer/semiconductor nanoparticle composites** — DARREN M GRAHAM
- 11:00 FrM2k.16 **Size Dependence of Phonon Scattering in CdSe/CdS/ZnS Nanocrystals** — THOMAS J LIPTAY
- 11:00 FrM2k.17 **Light Emission from HgTe Nanocrystals embedded in Silicon Waveguides** — VENTSISLAV LAVCHIEV

FrM2l: Semiconductor quantum electrodynamics, strong coupling

Friday 11:00–12:30; Poster

- 11:00 FrM2l.1 **From photon absorption to Rabi oscillations for excitons and atoms** — FRANCOIS DUBIN
- 11:00 FrM2l.2 **Quantum Measurement of Solid-State Qubit and Mesoscopic Transport from the Perspective of Quantum Open Systems** — XIN-QI LI
- 11:00 FrM2l.3 **Transmission Characteristics of Coupled-Electron-Waveguide Qubit Structures** — ARUNKUMAR RAMAMOORTHY
- 11:00 FrM2l.4 **Theoretical investigation of quantum-tomography measurements on entangled photon pairs emitted by quantum-dot cascade decay** — FILIPPO TROIANI
- 11:00 FrM2l.5 **Cavity quantum electrodynamics for two quantum dots** — ELENA DEL VALLE
- 11:00 FrM2l.6 **Optimized Coherent Control in Semiconductor Nano-Structures: Direct and Indirect Approaches** — MARKUS WENIN
- 11:00 FrM2l.7 **A non-Markovian optical signature for detecting entanglement in coupled excitonic qubits** — FERNEY JAVIER RODRIGUEZ

- 11:00 FrM2l.8 **Linewidth and quantum features of the signal emission of a microcavity in the optical parametric oscillation regime** — FABRICE P LAUSSY
- 11:00 FrM2l.9 **Spin mixing of two electrons in a quantum dot** — THOMAS L REINECKE

FrM2m: Quantum information and processing

Friday 11:00–12:30; Poster

- 11:00 FrM2m.1 **A Radio Frequency Quantum Point Contact Charge Read-Out** — THOMAS MUELLER
- 11:00 FrM2m.2 **Spin Rotations and Non-Abelian Phases in Quantum Wire Networks** — ARON W CUMMINGS
- 11:00 FrM2m.3 **Cluster states in charge qubits based on coupled quantum dots** — TETSUFUMI TANAMOTO
- 11:00 FrM2m.4 **Charge Detection in a Closed-Loop Aharonov-Bohm Interferometer** — GYONG LUCK KHYM
- 11:00 FrM2m.5 **Effect of the electron-hole exchange interaction on the photon-spin quantum state transfer** — YOSHIAKI RIKITAKE
- 11:00 FrM2m.6 **Spin qubit and its decoherence in quantum dot in a diluted magnetic semiconductor medium** — WITOLD JACAK
- 11:00 FrM2m.7 **Spin Dynamics of Electron-Nuclei Coupled System in a Double Quantum Dot** — ÖZGÜR ÇAKIR
- 11:00 FrM2m.8 **Acoustic charge transport in lateral n-i-p InSb/In_{1-x}Al_xSb quantum well diodes** — STUART J SMITH
- 11:00 FrM2m.9 **State Tomography of Layered Qubits via Spin Blockade Measurements on the Edge Qubit in a Spin Field-Effect Transistor Structure Embedded with Quantum Dots** — KAZUYA YUASA

FrM2n: Microcavities and photonic crystal structures

Friday 11:00–12:30; Poster

- 11:00 FrM2n.1 **Cylindric resonators with coaxial Bragg-Reflectors** — RÜDIGER SCHMIDT-GRUND
- 11:00 FrM2n.2 **Is the definition of left-handed materials ($\epsilon < 0, \mu < 0$) valid ?** — KIKUO CHO
- 11:00 FrM2n.3 **Strong optical confinements inside the wavelength-size metal mirror microcavities - New concept for small light emitters using InAsSb QDs microcavities -** — AKIO UETA
- 11:00 FrM2n.4 **Deep hole InP photonic crystals infiltrated with solid polymers and liquid crystals** — CARL-FREDRIK CARLSTRÖM
- 11:00 FrM2n.5 **Quantum beats in exciton-polariton system in semiconductor microcavity in magnetic field** — VLADIMIR D KULAKOVSKII
- 11:00 FrM2n.6 **Multiple polariton scattering and collective threshold phenomena in a semiconductor microcavity** — SERGEY S. GAVRILOV
- 11:00 FrM2n.7 **Spin dependent strong- to weak-coupling transition in semiconductor microcavities** — D. BALLARINI
- 11:00 FrM2n.8 **Resonant Raman scattering of cavity confined acoustic phonons in an optical microcavity** — NORBERTO DANIEL LANZILLOTTI-KIMURA
- 11:00 FrM2n.9 **Using phonons to populate the bottom of the polariton dispersion relation** — M. D. MARTIN
- 11:00 FrM2n.10 **Single and coupled photonic cavities - AlAs/GaAs DBR pillars and GaAs pyramids** — MICHAEL HETTERICH
- 11:00 FrM2n.11 **Design of an injection-friendly transverse-magnetic gap for photonic-crystal QC lasers** — MICHAEL BAHRIZ
- 11:00 FrM2n.12 **Positional Disorder in the Regime of Negative Refraction in Photonic Crystals** — RONALD MEISELS
- 11:00 FrM2n.13 **Emission properties of 6.7 micron vertical-emitting microcavity lasers operating in continuous-wave mode** — THOMAS SCHWARZL
- 11:00 FrM2n.14 **Light transmission in photonic crystal mediated by surface plasmon** — HOI LAM TAM

- 11:00 FrM2n.15 **Parametric Polariton Scattering in Single Micropillar Microcavities** — DANIELE BAJONI
- 11:00 FrM2n.16 **Dominant Effect of Polariton-Polariton Interactions on the Coherence of the Microcavity Optical Parametric Oscillator** — DMITRIY N KRIZHANOVSKII
- 11:00 FrM2n.17 **Polariton relaxation dynamics in semiconductor microcavities: Non-Markov effects** — FERNEY JAVIER RODRIGUEZ
- 11:00 FrM2n.18 **Spatial Distributions and Polarisation Properties of the Polaritonic Condensate in Semiconductor Microcavities** — DMITRIY N KRIZHANOVSKII
- 11:00 FrM2n.19 **Enhanced Spontaneous Emission of CdSe/ZnSe Quantum Dots in Monolithic II-VI Pillar Microcavities** — HENNING LOHMEYER
- 11:00 FrM2n.20 **Vortices in the Microcavity Optical Parametric Oscillator** — DAVID M WHITTAKER
- 11:00 FrM2n.21 **Negative Refraction in Aperiodic Photonic Crystals** — JAVAD ZARBAKHSH
- 11:00 FrM2n.22 **Direct observation of stacking faults in colloidal photonic crystals** — EVANGELLOS W VEKRIS
- 11:00 FrM2n.23 **2D photonic components in 3D inverted opals on Si** — GUDRUN KOCHER
- 11:00 FrM2n.24 **Quantum dots in a tube as light emitters, waveguides and ring resonators** — STEFAN MENDACH
- 11:00 FrM2n.25 **A New Criterion for Focussing in Photonic Crystals** — FRIEDEMAR KUCHAR
- 11:00 FrM2n.26 **Stability of the photonic band gap in the presence of disorder** — RICHARD A ABRAM

FrM2o: Semiconductor Spintronics: Spin manipulation and detection

Friday 11:00–12:30; Poster

- 11:00 FrM2o.1 **Spin coherence of two-dimensional electron gas achieved via resonant excitation of trions and excitons** — EVGENII A ZHUKOV
- 11:00 FrM2o.2 **Probing the Microscopic Structure of the Localized State in Quantum Point Contacts** — YOUNGSOO YOON
- 11:00 FrM2o.3 **Spin-dependent transmission through a mesoscopic ring: determination of the spin-orbit interaction strengths from the final spin orientation and spin flips** — PANAGIOTIS VASILOPOULOS
- 11:00 FrM2o.4 **Zeeman splitting of zero-dimensional heavy-hole states in a strongly strained Ge quantum well** — OLEKSIY B. AGAFONOV
- 11:00 FrM2o.5 **Spin orientation by electric current in 2D and 3D semiconductors** — LEONID E. GOLUB
- 11:00 FrM2o.6 **Theory on measuring electron spin decoherence time by nonlinear optical spectroscopy of single quantum dots** — REN-BAO LIU
- 11:00 FrM2o.7 **InAs diode heterostructure as an effective electron spin aligner** — YAKOV V TEREPTYEV
- 11:00 FrM2o.8 **Optical manipulation of exciton spin in a single self-assembled quantum dot** — HIROTAKA SASAKURA
- 11:00 FrM2o.9 **Analysis of Spin Interference Effect in Square Loop Arrays Including both Rashba and Dresselhaus Terms using InGaAs Quantum Wells** — TAKAAKI KOGA
- 11:00 FrM2o.10 **Novel mechanism for order-of-magnitude enhancement of Rashba effect in wide modulation-doped quantum wells** — DEJAN M GVOZDIC
- 11:00 FrM2o.11 **Stray-field-induced modification of coherent spin dynamics** — GIAN SALIS
- 11:00 FrM2o.12 **Optical spin pumping of low-dense electron gas in CdTe-based quantum wells** — G. V. ASTAKHOV
- 11:00 FrM2o.13 **Local imprinting of carrier spin states in a semiconductor via magnetic fringe fields** — SIMON HALM
- 11:00 FrM2o.14 **Toward high frequency spin-manipulation via electric-dipole-induced spin resonance in InAs quantum wells** — BRUCE D. MCCOMBE

FrM2p: Semiconductor Spintronics: Devices

Friday 11:00–12:30; Poster

- 11:00 FrM2p.1 **Spin-orbit interactions in high In-content InGaAs / InAlAs inverted hetero-junctions for Rashba spintronics devices** — HYONKWAN CHOI
- 11:00 FrM2p.2 **Magnetic and transport properties of embedded magnetic cells for a front-end MRAM design** — THEODOROS DIMOPOULOS

FrM2q: New Materials, Concepts and Techniques

Friday 11:00–12:30; Poster

- 11:00 FrM2q.1 **Optical band gap and bonding character of Li_3GaN_2** — KAZUO KURIYAMA
- 11:00 FrM2q.2 **Atomic force microscopy observation of the Jahn-Teller instability in spinel LiMn_2O_4 embedded in silicon substrates** — KAZUO KURIYAMA
- 11:00 FrM2q.3 **Shiva diagrams for composite exciton many-body effects** — MONIQUE COMBESCOT
- 11:00 FrM2q.4 **Optical Properties of Cylindrite** — CHRIS STURM
- 11:00 FrM2q.5 **Superionic Conduction in Hydrogen-Bonded Dielectric Materials** — HIROSHI KAMIMURA
- 11:00 FrM2q.6 **Electrodynamic properties of multilayered semiconductor structure** — OKSANA V SHRAMKOVA
- 11:00 FrM2q.7 **Large nitrogen composition of GaNSb grown by RF-MBE** — KOUICHI AKAHANE
- 11:00 FrM2q.8 **Vertical-Cavity Surface-Emitting Laser (VCSEL) Performance Optimized by a Genetic Algorithm** — WOLFGANG W RÜHLE
- 11:00 FrM2q.9 **Determination of the U term by a density-density correlation function in the LDA+U Hamiltonian** — KOICHI KUSAKABE
- 11:00 FrM2q.10 **Optical and structural properties of InN layers grown by high-pressure CVD** — NIKOLAUS DIETZ
- 11:00 FrM2q.11 **electron-beam induced Deposition - A novel Approach for Semiconductor Device Fabrication?** — GOTTFRIED HOCHLEITNER
- 11:00 FrM2q.12 **A Novel Method for Heterostructures with High Symmetry: Fixed Variance Development on Symmetrized Bloch Functions** — MARC-ANDRÉ DUPERTUIS
- 11:00 FrM2q.13 **Ferroelectric Electron/Hole Surface Conduction Layer** — YUKIO WATANABE
- 11:00 FrM2q.14 **Hard x-ray photoelectron spectroscopy on ultra shallow plasma-doped silicon layers** — M. KOBATA
- 11:00 FrM2q.15 **Simulation of Guided-Wave Photonic Devices with Variational Mode-Matching** — N. FINGER
- 11:00 FrM2q.16 **High Precision Alignment in Multi-Layer NanoImprint Lithography** — MICHAEL M MÜHLBERGER
- 11:00 FrM2q.17 **Experimental investigation on carrier dynamics at the thermal breakdown** — SUSANNA REGGIANI
- 11:00 FrM2q.18 **Optical modulation spectroscopy based on real-space electron transfer in semiconductor selectively doped heterostructures** — OLEG A RYABUSHKIN
- 11:00 FrM2q.19 **Ultra-compact scanning nearfield optical microscope (SNOM) for low-temperature photoluminescence investigations of single quantum dots** — KAI HODECK
- 11:00 FrM2q.20 **Ni-filled selforganized mesoporous silicon exhibiting novel ferromagnetic properties** — KLEMENS RUMPF
- 11:00 FrM2q.21 **Optically detected extended x-ray absorption fine structure study of In-GaN/GaN single quantum well structures** — DARREN M GRAHAM

FrA1a: Optical Studies: Dots IV: Spins and Spin Dynamics

Friday 14:00–15:45; Festsaal; Chair: M. Skolnick

- 14:00 FrA1a.1 **Spin Dynamics of Optically Stimulated Charges in InGaAs Self-Assembled Quantum Dots** — DOMINIK HEISS

- 14:15 FrA1a.2 **Ultrafast Spectral Hole Burning Spectroscopy of Exciton Spin Relaxation in Quantum Dots** — THOMAS MÜLLER
- 14:30 FrA1a.3 **Spin storage and readout in self-organized quantum dots** — TILL WARMING
- 14:45 FrA1a.4 **Probing spin excitations in AlGaAs/GaAs few-electron quantum dots by inelastic light scattering** — SOKRATIS KALLIAKOS
- 15:00 FrA1a.5 **Spin lifetime in electron-doped InP quantum dots** — Y. MASUMOTO
- 15:15 FrA1a.6 **Optically pumped nuclear spin polarization in a self-assembled quantum dot** — SATORU ADACHI
- 15:30 FrA1a.7 **Spin mixing for one and two electron states in quantum dots** — THOMAS GRANGE

FrA1b: Electronic Transport in Dots and Coupled Dots

Friday 14:00–15:45; Zeremoniensaal; Chair: T. Ihn

- 14:00 FrA1b.1 **Tunable tunnel and exchange couplings in a few electron double-dot** — TSUYOSHI HATANO
- 14:15 FrA1b.2 **Current gain in a quantum dot with three leads** — JÜRGEN WEIS
- 14:30 FrA1b.3 **Phase information from two-terminal conductance of quantum dot systems** — TOMOHIRO OTSUKA
- 14:45 FrA1b.4 **Lateral Quantum Dot in strained Si/SiGe Heterostructures** — THOMAS BERER
- 15:00 FrA1b.5 **The Stability Diagram of a Few Electron Artificial Triatom** — ANDREW S. SACHRAJDA
- 15:15 FrA1b.6 **Silicon charge qubit** — DAVID A WILLIAMS
(*Invited talk*)

FrA1c: Wide Gap Semiconductors

Friday 14:00–15:45; Gartensaal; Chair: H. Katayama-Yoshida

- 14:00 FrA1c.1 **Steps on III-Nitride 0001 surfaces: implications on growth morphologies and superlattice formation.** — LIVERIOS LYMPERAKIS
- 14:15 FrA1c.2 **Impact of inhomogeneous excitonic broadening in nitride based microcavities operating in the strong exciton-photon coupling regime** — RAPHAËL BUTTÉ
- 14:30 FrA1c.3 **ZnO ultraviolet light emitting diodes** — MASASHI KAWASAKI
(*Invited talk*)
- 15:00 FrA1c.4 **Optical properties of p-type ZnO and ZnMnO doped by N and/or As acceptors** — EWA PRZEZDZIECKA
- 15:15 FrA1c.5 **Conventional superconductivity and metal-insulator transition in heavily boron-doped single crystal diamond** — ETIENNE BUSTARRET
- 15:30 FrA1c.6 **On the mechanism of dislocation and stacking fault formation in a-plane GaN films grown by hydride vapor phase epitaxy** — ROLAND KROEGER

FrA1d: THz, Intersubband and Ultrafast Phenomena

Friday 14:00–15:45; Rittersaal; Chair: C.R. Pidgeon

- 14:00 FrA1d.1 **Multi-wavelength operation and vertical emission in THz quantum-cascade lasers** — GIACOMO SCALARI
(*Invited talk*)
- 14:30 FrA1d.2 **Demonstration of monochromatic terahertz acoustic phonon generation in superlattices under the hopping transport** — BORIS A GLAVIN
- 14:45 FrA1d.3 **Controlling polariton coupling in intersubband microcavities** — AJI A ANAPPARA
- 15:00 FrA1d.4 **GaN/AlN quantum wells and quantum dots for unipolar devices at telecommunication wavelengths** — FRANCOIS H JULIEN
- 15:15 FrA1d.5 **Dimensionality control in GaAs quantum wells dynamically-modulated by surface acoustic waves** — TETSUOMI SOGAWA
- 15:30 FrA1d.6 **Optical detection of ultrafast strain pulses in semiconductor quantum wells** — ANDREY V AKIMOV

FrA1e: Nanocrystals

Friday 14:00–15:45; Geheime Ratstube; Chair: D. Bimberg

- 14:00 FrA1e.1 **Bright-Exciton Fine Structure and Zeeman Splitting in Individual Colloidal CdSe Nanocrystals** — MADALINA I. FURIS
- 14:15 FrA1e.2 **Study of non radiative relaxation and exciton-phonon coupling in colloidal CdTe Quantum Dots** — GIOVANNI MORELLO
- 14:30 FrA1e.3 **Self organized grown Stranski Krastanow II-VI quantum dots vs. colloidal nanocrystals integrated in epitaxial nanostructures** — KLAUS LISCHKA
- 14:45 FrA1e.4 **Mechanism of Surface-Enhanced Light Emission from Single CdSe Nanoparticles on Metal Substrates** — YUICHI ITO
- 15:00 FrA1e.5 **Single semiconductor nanocrystals: physics and applications** — ULRIKE WOGGON
(*Invited talk*)
- 15:30 FrA1e.6 **Controlled Growth of CdSe Tetrapod Nanocrystals** — LIJUAN ZHAO

FrA2: Plenary lecture

Friday 16:00–16:45; Festsaal; Chair: H. Sakaki

- 16:00 FrA2.1 **Semiconductor cavity quantum electrodynamics for quantum information processing** — ATAC IMAMOGLU
(*Plenary talk*)

FrA3: Closing Ceremony

Friday 16:45–17:15; Festsaal

- 16:45 FrA3 **Closing Ceremony and IUPAP Young Author Best Paper Awards** — GÜNTHER BAUER (Program Chair), HIROYUKI SAKAKI (IUPAP C8 Commission Chair)

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