

Plenary speakers

Mario N. Baibich, Universidade Federal do Rio Grande do Sul (Brazil)

Giant magnetoresistance: from discovery to Nobel prize and beyond

Antonio H. Castro Neto, Boston University (USA)

The electronic properties of graphene

Tomas Jungwirth, Institute of Physics ASCR (Czech Republic)

Ferromagnetic semiconductor materials and spintronic transistors

Byung-Gook Park, Seoul National University (South Korea)

Nanosculpture: Three-dimensional CMOS device structures for the ULSI Era

Lars Samuelson, Lund University (Sweden)

Growth, Physics and Applications of Semiconductor Nanowires

Invited speakers

Yara G. Gobato, Universidade Federal de São Carlos (Brazil)

Spin polarization in resonant tunneling diodes

Maria Gracheva, University of Illinois at Urbana-Champaign (USA)

Multilayered semiconductor membranes for biomolecular sensing and manipulation

Isaac Hernandez-Calderon, CINVESTAV (Mexico)

Interface structure and excitonic properties of quantum wells and superlattices based on subnanometric CdSe epitaxial films

Seunghun Hong, Seoul National University (South Korea)

Self-assembly for mass-production of nanowire/nanotube-based integrated devices

Denis Maryenko, Max Planck Institute (Germany)

Ultrafast photoconductive switches operated at 1.55 μm : suitable material and application

Sergey Mikhailov, University of Augsburg (Germany)

Non-linear optics of graphene for terahertz applications

Armando Rastelli, IFW Dresden (Germany)

Optically active lateral quantum dot molecules

Michael Scheibner, Naval Research Laboratory (USA)

Optical level anticrossing of quantum dot molecules

Mahi R. Singh, University of Western Ontario (Canada)

Photonic transistors made from photonic quantum wires

Yoshimasa Sugimoto, National Institute for Materials Science (Japan)

Advanced quantum dot and photonic crystal technologies for integrated nano-photonic circuit

Mauricio Terrones, IPICyT (Mexico)

The importance of defects in carbon nanotubes: how to identify them using different techniques

Karl Unterrainer, Technische Universität Wien (Austria)

THz Quantum Cascade Lasers: microcavities and photonics crystal devices

Bernhard Urbaszek, Institut National des Sciences Appliquées (France)

Manipulating a single spin in a single quantum dot through optical control of the hyperfine interaction with nuclear spins

Ming-Wei Wu, University of Science & Technology of China (China)

Spin dynamics in semiconductor nanostructures

Xiulai Xu, Hitachi Cambridge Laboratory (UK)

‘Plug and play’ single photon sources at 1.3 μm approaching GHz operation

Timetable

	SUNDAY AUGUST 08/03	MONDAY AUGUST 08/04	TUESDAY AUGUST 08/05	WEDNESDAY AUGUST 08/06	THURSDAY AUGUST 08/07	FRIDAY AUGUST 08/08
09:00 - 09:40		CASTRO NETO	BAIBICH	SAMUELSON	PARK	JUNGWIRTH
09:40 - 10:10		MIKHAILOV	WU	SINGH	GRACHEVA	GOBATO
10:10 - 10:25		SOUZA FILHO	DIEHL	WOO	NAKAYAMA	PEREYRA
10:25 - 10:40		WRIGHT	CLEMENT	WEMAN	ZENG	LIU
10:40 - 11:05		BREAK	BREAK	BREAK	BREAK	BREAK
11:05 - 11:20		UNTERRAINER	SUGIMOTO	PEETERS	USBARSEK	HERNANDEZ
11:20 - 11:35		FERREIRA	TSU	BESCOND	LEGER	FIORENTINI
11:35 - 11:50		BAHIR	HUANCA	PEIBST	CHAMARRO	NIKIFOROV
11:50 - 12:05		DEMARINA	LEVENSON	MICHELINI	HVAM	MARQUES
12:05 - 12:20		PEREIRA	POLISHCHUK	STEPINA	WINTER	MELNIK
12:20 - 12:35		HYART	GRUTZMACHER		KUDRAWIEC	CLOSING
12:35 - 12:50		LUNCH	LUNCH		LUNCH	
12:50 - 15:00		XU	SCHEIBNER		TERRONES	
15:00 - 15:30		MARYENKO	RASTELLI		HONG	
15:30 - 16:00		BENNET	LEBURTON		GALVAO	
16:00 - 16:15		HEISS	HAWRYLAK		HARBELE	
16:15 - 16:30		HOMWOOD	HAI		COSTA	
16:30 - 16:45		BREAK	BREAK		BREAK	
16:45 - 17:10	REGISTRATION	JUSSERAND		EXCURSION		DEPART
17:10 - 17:25		GREENAWAY				
17:25 - 17:40		SHUBINA				
17:40 - 17:55		ROGACHEVA	POSTERS			
17:55 - 18:10		MILSHTEIN				
18:10 - 18:25						
18:25 - 18:40						
20:00 - 21:00	OPENING				CONFERENCE DINNER	
21:00 - 22:00						

SESSIONS LIST

Session	weekday/time	Subject	Chairman
1	Monday 09:00 – 10:40	Graphene	F. M. Peeters
2	Monday 11:05 – 12:50	Superlattices	T. Shubina
3	Monday 15:00 – 16:45	Nanodevices	B. G. Park
4	Monday 17:10 – 18:25	Plasmonics/Phononics/Superlattices	M. R. Singh
5	Tuesday 09:00 – 10:40	Magnetism in nanostructures	B. Urbaszek
6	Tuesday 11:05 – 12:50	Photonics	K. Unterrainer
7	Tuesday 15:00 – 16:45	Quantum dot molecules	G. E. Marques
8	Tuesday 17:10 – 18:40	Posters	Y. Sugimoto
9	Wednesday 09:00 – 10:40	Quantum wires	P. Pereyra
10	Wednesday 11:05 – 12:20	Si/Ge Nanostructures	R. Tsu
11	Thursday 09:00 – 10:40	CMOS devices and molecular electronics	J. C. Woo
12	Thursday 11:05 – 12:50	Spin dynamics and optical transitions in quantum dots	R. Ferreira
13	Thursday 15:00 – 16:45	Carbon nanotubes	A. G. Souza Filho
14	Thursday 17:10 – 18:40	Posters	M. W. Wu
15	Friday 09:00 – 10:40	Spin transport and spintronics	P. Hawrylak
16	Friday 11:05 – 12:35	Fabrication and characterization of nanostructures	L. Samuelson
17	Friday 12:35 – 12:50	Closing session	G. A. Farias

ICSNN 2008 Scientific Program

4 August Monday

Session 1: Graphene Chairman: F. M. Peeters	
09:00 – 09:40	(PLENARY) The electronic properties of graphene <i>Antônio H. Castro Neto</i>
09:40 – 10:10	(INVITED) Non-linear optics of graphene for terahertz applications <i>S. Mikhailov</i>
10:10 – 10:25	Chemical doping-induced gap opening and spin polarization in graphene <i>I. Zanella, S. B. Fagan, S. Guerini, A. G. Souza Filho</i>
10:25 – 10:40	Thermodynamic properties of graphene nanoribbons under zero and quantized magnetic fields <i>A. R. Wright, Junfeng Liu, Zhongshui Ma and C. Zhang</i>
10:40 – 11:05	COFFEE BREAK
Session 2: Superlattices Chairman: T. Shubina	
11:05 – 11:35	(INVITED) THz Quantum Cascade Lasers: Microcavities and Photonics Crystal Devices <i>G. Fasching, A. Benz, Ch. Deutsch, W. Parz, J. Darmo, A.M. Andrews, W. Schrenk, G. Strasser, K. Unterrainer</i>
11:35 – 11:50	THz oscillations in biased superlattice excited by a short interband light pulse <i>J. R. Cardenas, R. Ferreira and G. Bastard</i>
11:50 – 12:05	High frequency response in GaN/AlGaN/AlN quantum cascade detector operating at room temperature in the near-IR wavelength <i>A. Vardi, N. Kheirodin, F. Guillot, E. Monroy, L. Nevou, M. Tchernycheva, L. Vivien, F. H. Julien, S. E. Schacham, G. Bahir</i>
12:05 – 12:20	Transient and stationary drift currents of Bloch oscillating electrons in a tilted magnetic field <i>E. Mohler, N. V. Demarina, A. Lisauskas, and H. G. Roskos</i>
12:20 – 12:35	Intersubband Gain without Inversion <i>M.F. Pereira</i>
12:35 – 12:50	Possible THz Bloch gain in dc-ac-driven superlattices <i>Timo Hyart, Natalia V. Alexeeva and Kirill N. Alekseev</i>

Session 3: Nanodevices Chairman: B. G. Park	
15:00 – 15:30	(INVITED) ‘Plug and play’ single photon sources at 1.3 μm approaching GHz operation <i>X. Xu, F. Brossard, K. Hammura, D. A. Williams, B. Alloing, L. H. Li, A. Fiore</i>
15:30 – 16:00	(INVITED) Ultrafast photoconductive switches operated at 1.55 μm: suitable material and applications <i>D. Maryenko, F. Ospald, K. v. Klitzing, J. H. Smet, D. C. Driscoll, M. P. Hanson, H. Lu, A. C. Gossard, and V. Umansky</i>
16:00 – 16:15	Coherence and indistinguishability of single photons from LEDs <i>A. J. Bennett, R. B. Patel, P. Atkinson, C. A. Nicoll, K. Cooper, D. A. Ritchie and A. J. Shields</i>
16:15 – 16:30	Inkjet printed nanocrystal photodetectors operating up to 3 μm wavelength <i>W. Heiss, M. Böberl, M. V. Kovalenko, S. Gamerith, and E. J. W. List</i>
16:30 – 16:45	Nano-engineered rare earth doped silicon light emitting diodes and optically active waveguides <i>M. A. Lourenço, R. M. Gwilliam and K. P. Homewood</i>
16:45 – 17:10	COFFEE BREAK
Session 4: Plasmonics/Phononics/Superlattices Chairman: M. R. Singh	
17:10 – 17:25	Ultimate phonon lifetime in acoustic nanocavities: a high resolution Raman scattering study <i>G. Rozas, M. F. Pascual Winter, B. Jusserand, A. Fainstein, B. Perrin, A. Lemaître, R. Ouillon, and P. Ranson</i>
17:25 – 17:40	Using sound to create THz electron dynamics in superlattices <i>M.T. Greenaway, A.G. Balanov, D. Fowler, A.J. Kent, and T.M. Fromhold</i>
17:40 – 17:55	Plasmonic effects in semiconductor-metal nanocomposites <i>T. V. Shubina, S. V. Ivanov, T. A. Komissarova, V. A. Kosobukin, V. N. Jmerik, A.N. Semenov, P. S. Kop’ev, A. Vasson, J. Leymarie, N. A. Gippius, T. Araki, and Y. Nanishi</i>
17:55 – 18:10	Quantum size effects and transport phenomena in Bi thin layers <i>E. I. Rogacheva, S. G. Lyubchenko, O. N. Nashchekina, A.V. Meriuts, M. S. Dresselhaus</i>
18:10 – 18:25	Patterning 0.05μm Gate on PHEMT <i>P. Kurlawala, S. Mil’shtein</i>

5 August Tuesday

Session 5: Magnetism in nanostructures Chairman: B. Urbaszek	
09:00 – 09:40	(PLENARY) Giant Magnetoresistance: from discovery to Nobel Prize and beyond <i>Mario N. Baibich</i>
09:40 – 10:10	(INVITED) Spin Dynamics in Semiconductor Nanostructures <i>M. W. Wu</i>
10:10 – 10:25	Magneto-gyrotropic photogalvanic effects due to inter-subband absorption in quantum wells <i>H. Diehl, V.A. Shalygin, S.N. Danilov, S.A. Tarasenko, V.V. Bel'kov, D. Schuh, W. Wegscheider, W. Prettl, and S.D. Ganichev</i>
10:25 – 10:40	Dynamic equilibrium of magnetic ions in CdMnTe quantum dots <i>T.Clément, L.Besombes, D.Ferrand, H.Boukari, H.Mariette</i>
10:40 – 11:05	COFFEE BREAK
Session 6: Photonics Chairman: K. Unterrainer	
11:05 – 11:35	(INVITED) Advanced quantum dot and photonic crystal technologies for integrated nano-photonic circuit <i>Y. Sugimoto and K. Asakawa</i>
11:35 – 11:50	Enhancement of Photoluminescence with Photonic Structures <i>R. Tsu and K. Liu</i>
11:50 – 12:05	Backside contact effect on the morphological and optical features of porous silicon photonic crystals <i>D. R. Huanca, and W. J. Salcedo</i>
12:05 – 12:20	Nonlinear optical responses related to electronic and photonic lifetimes in III-V semiconductor 2D photonic crystals <i>A. Yacomotti, F. Raineri, R. Raj and J. A. Levenson</i>
12:20 – 12:35	New Guiding Features of Low Dimensional Arrays of Optical Spheres <i>I. Ya. Polishchuk, M. I. Gozman, A. L. Burin</i>
12:35 – 12:50	Three-dimensional Ge/Si quantum dot crystals with small periodicities <i>D. Grützmacher, C. Dais, G. Mussler, H. H. Solak, T. Fromherz, J. Stangl</i>

Session 7: Quantum dot molecules (15:00 – 16:45) Chairman: G. E. Marques	
15:00 – 15:30	<i>(INVITED)</i> Optical Level Anticrossing Spectroscopy of Quantum Dot Molecules <i>M. Scheibner</i>
15:30 – 16:00	<i>(INVITED)</i> Optically active lateral quantum dot molecules <i>A. Rastelli</i>
16:00 – 16:15	Abrupt exchange interaction in quantum dot molecules <i>L.-X. Zhang, D. V. Melnikov and J. P. Leburton</i>
16:15 – 16:30	Voltage tunable total spin in a triple quantum dot molecule <i>P. Hawrylak and Y.-P. Shim</i>
16:30 – 16:45	Persistent current in vertically coupled quantum rings <i>L. K. Castelano, G.-Q. Hai, B. Partoens, F. M. Peeters</i>
16:45 – 17:10	COFFEE BREAK
Session 8: Posters Chairman: Y. Sugimoto	
17:10 – 18:40	Posters

6 August Wednesday

Session 9: Quantum wires Chairman: P. Pereyra	
09:00 – 09:40	(PLENARY) Growth, physics and applications of semiconductor nanowires <i>L. Samuelson</i>
09:40 – 10:10	(INVITED) Photonic transistors made from photonic quantum wires <i>M. R. Singh</i>
10:10 – 10:25	High Field Zeeman Separation in GaAs/AlGaAs Quantum Wires Contributed by Neutral and Negatively Charged Excitons <i>I.T. Jeong, G.S. Jeon, M.G. Sung, K.H. Yoo and J.C. Woo</i>
10:25 – 10:40	Radiative Emission from a Type-II GaAsSb Segment in a Single GaAs Nanowire <i>A. F. Moses, D.L. Dheeraj, B.O. Fimland, H. Weman, K. F. Karlsson and P. O. Holtz</i>
10:40 – 11:05	COFFEE BREAK
Session 10: Si/Ge Nanostructures Chairman: R. Tsu	
11:05 – 11:20	Neutral and charged shallow donors near a metallic interface <i>A.F. Slachmuylders, B. Partoens, W. Magnus, and F.M. Peeters</i>
11:20 – 11:35	3D real-space quantum transport simulation of nanowire MOS transistors: influence of the doping impurity <i>M. Bescond, M. Lannoo, F. Michelini, L. Raymond and M. Pala</i>
11:35 – 11:50	PECVD grown Ge nanocrystals embedded in SiO₂: from disordered to templated self-organization <i>R. Peibst, T. Dürkop, E. Bugiel, N. Koo, T. Mollenhauer, M.C. Lemme, H. Kurz and K. R. Hofmann</i>
11:50 – 12:05	Multielectron states in silicon nanocrystals <i>F. Michelini, M. Szcap, N. Pons, N. Cavassilas, D. Deleruyelle and AM. Daré</i>
12:05 – 12:20	The transition from strong to weak localization in two-dimensional array of Ge/Si QDs <i>N. P. Stepina, E.Koptev, A. Dvurechenskii and A. Nikiforov</i>

7 August Thursday

Session 11: Molecular electronics Chairman: J. C. Woo	
09:00 – 09:40	(PLENARY) Nanosculpture: Three-dimensional CMOS device structures for the ULSI era <i>B.-G. Park</i>
09:40 – 10:10	(INVITED) Multilayered semiconductor membranes for biomolecular sensing and manipulation <i>M. E. Gracheva and J.-P. Leburton</i>
10:10 – 10:25	Theory of current-induced quantum friction in nano-linked molecule vibration <i>T. Nakayama, Y. Shigeno</i>
10:25 – 10:40	Theoretical demonstration of symmetric <i>I-V</i> curves in asymmetric molecular junction of monothiolate alkane <i>H. Hao, Z. Zeng</i>
10:40 – 11:05	COFFEE BREAK
Session 12: Spin dynamics and optical transitions in quantum dots Chairman: R. Ferreira	
11:05 – 11:35	(INVITED) Manipulating a single spin in a single quantum dot through optical control of the hyperfine interaction with nuclear spins <i>B. Urbaszek, T. Amand, T. Belhadj, C.-M. Simon, T. Kuroda, T. Mano, K. Sakoda, N. Koguchi, O. Krebs, A. Lemaître, P. Voisin and X. Marie</i>
11:35 – 11:50	Spin dynamics of a single magnetic atom in an individual quantum dot <i>Y. Léger, L. Besombes, H. Boukari and H. Mariette</i>
11:50 – 12:05	Hole-Nuclear Spin Interaction in Quantum Dots <i>B. Eble, C. Testelin, P. Desfonds, F. Bernardot, A. Balocchi, T. Amand, A. Miard, A. Lemaître³, X. Marie and M. Chamarro</i>
12:05 – 12:20	Exciton radiative lifetime in sub-monolayer and Stranskii-Krastanow grown InGaAs/GaAs quantum dots <i>Z. Xu, Y. Zhang, A. Tackeuchi, Y. Horikoshi, and J. M. Hvam</i>
12:20 – 12:35	Optical generation and detection of high frequency acoustic phonons in nanostructures <i>M. F. P. Winter, A. Huynh, B. Jusserand, A. Fainstein, B. Perrin, A. Lemaître</i>
12:35 – 12:50	Micro-photoluminescence study of GaNAs, GaInNAs and GaNAsSb layers <i>R. Kudrawiec, G. Sęk, J. Misiewicz, L. H. Li, and J.C. Harmand</i>

Session 13: Carbon nanotubes Chairman: A. G. Souza Filho	
15:00 – 15:30	(INVITED) The Importance of Defects in Carbon Nanotubes: How to Identify them using Different Techniques <i>M. Terrones</i>
15:30 – 16:00	(INVITED) Self-assembly for mass-production of nanowire/nanotube-based integrated devices <i>S. Hong</i>
16:00 – 16:15	Negative and Positive Poisson's Ratio for Carbon Nanotube Sheets: A Theoretical Investigation <i>V. R. Coluci, L. J. Hall, M. E. Kozlov, M. Zhang, S. O. Dantas, D. S. Galvão, and R. H. Baughman</i>
16:15 – 16:30	Modification of the unoccupied electronic structure of CNTs by acid functionalization. <i>S. Hevia, R. Segura,²G. Eda, M. Chhowalla and P. Häberle</i>
16:30 – 16:45	Carbon nanotubes as terahertz emitters and detectors <i>M. R. da Costa, O. V. Kibis and M. E. Portnoi</i>
16:45 – 17:10	COFFEE BREAK
Session 14: Posters Chairman: M. W. Wu	
17:10 – 18:40	Posters

8 August Friday

Session 15: Spin transport and spintronics Chairman: P. Hawrylak	
09:00 – 09:40	(PLENARY) Ferromagnetic semiconductor materials and spintronic transistors <i>T. Jungwirth</i>
09:40 – 10:10	(INVITED) Spin polarization in resonant tunneling diodes <i>Y. Galvão Gobato</i>
10:10 – 10:25	Space-time evolution of Gaussian spin wave packets <i>V.G. Ibarra-Sierra, J. L Cardoso, and P. Pereyra</i>
10:25 – 10:40	Experimental investigation of spin diffusion process in (110)GaAs/AlGaAs quantum wells by transient spin grating <i>B. L. Liu, C. C. Hu, D. M. Chen, W. X. Wang, W. Q. Wang, X. Marie</i>
10:40 – 11:05	COFFEE BREAK
Session 16: Fabrication and characterization of nanostructures Chairman: L. Samuelson	
11:05 – 11:35	(INVITED) Interface structure and excitonic properties of quantum wells and superlattices based on subnanometric CdSe epitaxial films <i>I. Hernandez-Calderon</i>
11:35 – 11:50	Reactive epitaxy of metallic hafnium silicide nanocrystals <i>G. A. Fiorentini, M. S. Leite, V. L. Pimentel, L. A. Montoro, A. J. Ramirez and G. Medeiros-Ribeiro</i>
11:50 – 12:05	Wetting layer formation in superlattices with Ge quantum dots on Si(100) <i>A.I. Nikiforov, V.V. Ulyanov, V.A. Timofeev, O.P. Pchelyakov</i>
12:05 – 12:20	Tuning the magneto-polarization in thermally annealed self-assembled quantum dots <i>E. Margapoti, L. Worschech, S. Mahapatra, K. Brunner, A. Forchel, Fabrizio M. Alves, V. Lopez-Richard, G. E. Marques, C. Bougerol</i>
12:20 – 12:35	Phase Stability of CdS Quantum Dots: The Effect of Temperature <i>R. V. N. Melnik and Bin Wen</i>
12:35 – 12:50	CLOSING SESSION

POSTER SESSION - TUESDAY

Chairman: Y. Sugimoto

P01	QUANTUM DOT NANODEVICE WITH ELECTRON-PHONON INTERACTION <i>K. Král</i>
P02	DONOR IMPURITIES IN DOUBLE QUANTUM-DOT STRUCTURES: MAGNETIC-FIELD EFFECTS <i>P. Ulloa, M. Pacheco, Z. Barticevic</i>
P03	FANO EFFECT AND NEGATIVE DIFFERENTIAL CONDUCTANCE IN A SIDE ATTACHED DOUBLE QUANTUM-DOT MOLECULE <i>P.A. Orellana, G. A. Lara and E. V. Anda</i>
P04	HOLE STATES IN VERTICALLY COUPLED DOUBLE GE/SI QUANTUM DOTS <i>A. Yakimov, A. Nikiforov, A. Dvurechenskii</i>
P05	ENGINEERING A SPIN INVERTER DEVICE <i>J. L. Cardoso, and P. Pereyra</i>
P06	SIGE NANOCRYSTAL FLASH MEMORIES: STRATEGIES TO SIMULTANEOUSLY ACHIEVE FAST PROGRAMMING AND LONG RETENTION TIMES <i>J. S. de Sousa, G. A. Farias and J.-P. Leburton</i>
P07	LOW-TEMPERATURE PHOTOLUMINESCENCE OF SI NANOCRYSTALS EMBEDDED IN SiO ₂ <i>C. C. Baganha, E. Ribeiro, E. Silveira, U.S. Sias, and E. C. Moreira</i>
P08	THE VALUE OF MONOPHASIC CAPACITANCE OF FEW ELECTRON SYSTEM <i>T. LaFave Jr. and R. Tsu</i>
P09	AN ARRAY OF QUANTUM DOTS AS A SPIN FILTER DEVICE <i>J. Ojeda, M. Pacheco and P.A. Orellana</i>
P10	ELECTRONIC PROPERTIES OF ORDERED AND DISORDERED SIGE NANOCRYSTALS <i>E. L. de Oliveira, E. L. Albuquerque, J. S. de Sousa, G. A. Farias</i>
P11	ENERGY SPECTRUM AND SPIN STATES IN SEMICONDUCTOR QUANTUM RINGS UNDER TILTED MAGNETIC FIELDS <i>A. Chaves, N. S. de Almeida, J. S. de Sousa, G. A. Farias and R. Ferreira</i>
P12	EFFECTS OF GEOMETRICAL DEFECT ON PERSISTENT CURRENT IN A QUANTUM RING <i>H. K. Salehani, K. Shakouri, M. Esmailzadeh</i>
P13	STUDY OF CHAINLIKE ARRANGEMENT OF FLUORINE DOPED ZINC OXIDE NANOPARTICLES <i>R. Gonzalez-Hernandez, A. I. Martinez, M. A. Garcia-Lobato, M. I. Pech-Canul, Alcides Lopez, D. L. Perry</i>
P14	SIZE CONTROL AND LOCALISED GROWTH OF SI AND GE NANOWIRES ON SILICON OXIDE SUBSTRATES <i>S. Piersanti, P. Carelli, E. Palange, M. Giammatteo, L. Arrizza, S. Foglia, A. Notagiacomio, L. Di Gaspare, and F. Evangelisti</i>
P15	ADAMANTANE-LIKE SI AND GE NANOPARTICLES: STRUCTURAL AND ELECTRONIC PROPERTIES <i>F. F. Maia Jr., J. V. Santana, S. G. Santos, E. W. S. Caetano, V. N. Freire, and V. Lemos</i>
P16	TIGHT-BINDING CALCULATIONS OF THE OPTICAL MATRIX ELEMENTS: AN APPLICATION TO GE QUANTUM WIRES <i>A. Miranda and M. Cruz-Irisson</i>
P17	FRACTIONAL QUANTIZATION OF BALLISTIC CONDUCTANCE IN ONE-DIMENSIONAL ELECTRON AND HOLE SYSTEMS <i>M. R. da Costa, N. T. Bagraev, A. C. Seridonio, and I. A. Shelykh</i>
P18	QUANTUM CONFINEMENT EFFECTS ON ELECTRONIC PROPERTIES OF HYDROGENATED 3C-SIC NANOWIRES <i>A. Miranda, A. E. Ramos and M. Cruz-Irisson</i>
P19	QUASI-ONE-DIMENSIONAL POLARON GAS IN A GAAS QUANTUM WIRE <i>P. C. M. Machado, A. N. Borges and F. A. P. Osório</i>
P20	SURFACE POTENTIAL VARIATION IN SEMICONDUCTOR NANOWIRE ASSEMBLIES <i>A. Narváez, T. Chiaramonte, K. O. Vicaro, J. H. Clerici, P. A. Schulz and M. A. Cotta</i>
P21	THE DIPOLE-DIPOLE INTERACTION IN PHOTONIC QUANTUM WIRES <i>M. R. Singh</i>

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P22	A DFT STUDY OF CUBIC AND HEXAGONAL ZINC OXIDE NANOWIRES <i>A. I. Martinez, M. A. Garcia-Lobato</i>
P23	PREPARATION AND PHYSICAL CHARACTERIZATION OF IRON OXIDE NANOCHAINS <i>M. A. Garcia-Lobato, Arturo. I. Martinez, R. Gonzalez-Hernandez, M. J. Castro-Roman</i>
P24	SPIN-ORBIT INTERACTION IN QUANTUM-WIRES: EFFECTS ON GROUND-STATE SPIN-SPLITTING AND SPIN-POLARIZATION <i>L. Villegas-Lelovsky, C. Trallero-Giner, V. Lopez-Richard, and G. E. Marques</i>
P25	ELECTROMODULATION SPECTROSCOPY OF THE GROUND AND EXCITED STATE TRANSITIONS FOR GA(IN)N/AL(IN)N MULTI QUANTUM WELLS <i>R. Kudrawiec, M. Gladysiewicz, M. Motyka, J. Misiewicz, G. Cywiński, M. Siekacz, and C. Skierbiszewski</i>
P26	EXCHANGE-INDUCED BAND HYBRIDIZATION IN INAS/GASB BASED TYPE II AND BROKEN-GAP QUANTUM WELL SYSTEMS <i>W. Xu, X. F. Wei, Z. Zeng, J. Zhang, A. R. Wright, and C. Zhang</i>
P27	THE X –RAY INVESTIGATION OF CO ₂ +GGG EPITAXIAL FILMS <i>K. Mazur and J. Sarnecki</i>
P28	TERAHERTZ BAND-GAP IN INAS/GASB TYPE II SUPERLATTICES <i>L. L. Li, W. Xu, Z. Zeng, J. Zhang, A. R. Wright, and C. Zhang</i>
P29	CARRIER RECOMBINATION IN DEEP UV ALGAN QUANTUM WELLS <i>S. Marcinkevičius, A. Pinos, K. Liu, M. S. Shur, J. Yang, M. Shatalov and R. Gaska</i>
P30	MID-INFRARED ABSORPTION BY SHORT-PERIOD INAS/GASB TYPE II SUPERLATTICES <i>L. L. Li, W. Xu, Z. Zeng, J. Zhang, A. R. Wright, and C. Zhang</i>
P31	BLINKING LUMINOUS CENTERS IN A INGAN QUANTUM WELL <i>R. Micheletto, S. Suzuki, Y. Kawakami, A. Kunold, P. Pereyra, Y. Narukawa and T. Mukai</i>
P32	RAMAN SPECTROSCOPY CHARACTERIZATION OF GAASN EPILAYERS GROWN BY CHEMICAL BEAM EPITAXY <i>J. F. Teixeira, J. A. H. Coaquira, S. W. da Silva, P. C. Morais, A. Fotkatzikis, A. Freundlich</i>
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P34	EXPERIMENTAL STUDY ON THE CONDITION OF FORMATION OF ELECTRIC-FIELD DOMAINS IN MULTIPLE FINITE SUPERLATTICES <i>N. Ohtani, S. Noma, K. Akahane, M. Hosoda and K. Fujita</i>
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P52	INTERSUBBAND ANTIPOLARITONS: A MICROSCOPIC DESCRIPTION OF LIGHT COUPLING WITH EXCITED SEMICONDUCTOR NANOSTRUCTURES <i>M. F. Pereira</i>
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P55	OPTICAL FILTERS BASED IN QUASIPERIODIC PHOTONIC CRYSTAL <i>M. S. Vasconcelos, P.W. Mauriz, and E. L. Albuquerque</i>
P56	STAIRCASE PHASE IN YAB CRYSTAL <i>I. Bodnar</i>
P57	STRUCTURAL DEPENDENCE OF MACROPOROUS SILICON LAYERS ON THE BACKSIDE CONTACT <i>D. R. Huanca, D. S. Raimundo, and W. J. Salcedo</i>
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