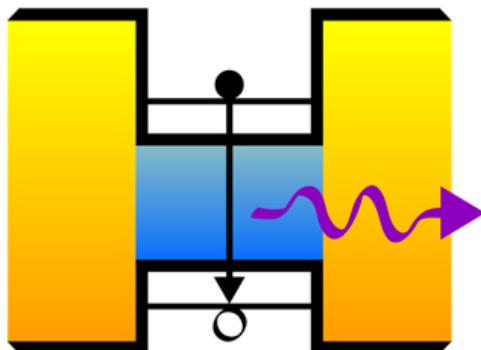


Short Program

LDSD 2016



THE EIGHTH INTERNATIONAL CONFERENCE ON Low DIMENSIONAL STRUCTURES AND DEVICES

Mayan Riviera – Mexico
August 28 – September 02, 2016

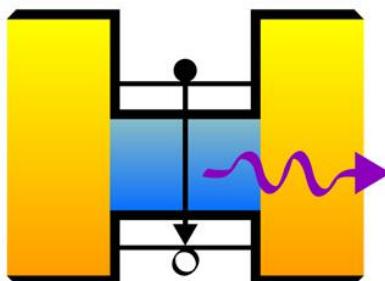


SCHEDULE

LDSD2016		8th Intl. Conference on Low Dimensional Structures and Devices Mayan Riviera - Mexico					
Hour	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	
08:00 - 09:00	Registration	Registration	Registration	Registration	Registration		
09:00 - 09:30		Opening Session	T. Boles	G. Le Lay	S. Johnson	T. Ihn	
09:30 - 09:50		L. Krusin	R. Tsu	R. Mani	S. Tomić	G. Sipahi	
09:50 - 10:10		D. Grützmacher	A. Lastras	A. Schramm	M. Gladysiewicz	H.Y. Ramírez	
10:10 - 10:30			W. Brooks	C.A. Duque		S. Mil'shtein	
10:30 - 11:00		Coffee Break	Coffee Break	Coffee Break	Coffee Break	Closing Session	
11:00 - 11:30		C.A.A. de Carvalho	M. Brehm	P. Hawrylak	K.-W. Ang		
11:30 - 11:50		Z. Wang	P. Szumniak	R. Kudrawiec	J. Guerrero		
11:50 - 12:10		J.I. Cerdá	J. De La Torre	M.E. Mora	M. Demarina		
12:10 - 12:30		L.E. Oliveira	A. Kriisa		D. Fan		
12:30 - 13:00		C.A. Trallero	K. Tomioka	Excursion	J. Lott		
13:00 - 17:00		Lunch	Lunch		Lunch		
17:00 - 17:30					T. Myers		
17:30 - 17:50	Registration				A. Morales		
17:50 - 18:10					J.C. Salcedo		
18:10 - 18:30					O. Sorias		
18:30 - 18:50							
18:50 - 19:10							
19:10 - 19:30							
19:30 - 20:00		Welcome Cocktail					
20:00			Social and cultural events			Conference Banquet	
21:00							

THE EIGHTH INTERNATIONAL CONFERENCE ON LOW DIMENSIONAL STRUCTURES AND DEVICES

LDSD 2016



Mayan Riviera – Mexico

August 28 – September 02, 2016

LDSD 2016 will continue the success of the '95, '97, '99, '02, '04, '07 and '11 meetings, which were held in Singapore, Portugal, Turkey, Brazil, Mexico, Colombia and Mexico, respectively, by addressing the latest advances in a broad range of low dimensional structures and devices (LDSD) technologies, and their integration for a variety of applications.

The use of low dimensional structures is a key technological element in the creation of new quantum functional devices, in the development of the next generation of electronic and photonic integrated circuits and many other nanoscaled devices that are needed for the information society of this 21st century.

The conference is established to provide a forum for researchers, engineers, and product developers engaged in the full spectrum of research and development, from fundamental research to product manufacturing and systems applications. In addition, the conference will provide an opportunity to get a broad overview of the field by covering a wide range of growth techniques, materials, nanostructures, characterization, processing, device fabrication, microsystems, applications, and other related topics. This diversity of topics has been chosen to encourage the exchange of ideas between the broad range of physics and engineering disciplines.

The scientific program will consist of invited talks describing the current state of the art of LDSD field, which will be presented by leading specialists in each of these key areas. The program also includes experimental and theoretical work on both fundamental and applied research in LDSD in the form of oral and poster presentations in unique sessions.

The official language of the conference is English.

CONFERENCE COMMITTEES

ORGANIZING COMMITTEE

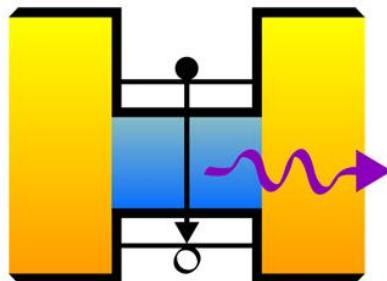
Chairmen: **Mohamed Henini**, Nottingham University, UK, mohamed.henini@nottingham.ac.uk
Isaac Hernández-Calderón, Cinvestav, Mexico, Isaac.Hernandez@fis.cinvestav.mx

Secretariat: **Frantisek Sutara**, Cinvestav, Mexico, fsutara@fis.cinvestav.mx

INTERNATIONAL ADVISORY COMMITTEE

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Sergio I. Molina, University of Cadiz, Spain
Luiz E. Oliveira, State University of Campinas, Brazil
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Francoise Peeters, University of Antwerp, Belgium
Unil Perera, Georgia State University, USA
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Yong-Hang Zhang, Arizona State University, USA

LDSD 2016



LOCAL ORGANIZING COMMITTEE

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Mariana del Castillo Sánchez (Cinvestav, Mexico)
Assistant to the Local Organizing Committee
Juan Carlos Banthí Barcenas (Cinvestav, Mexico)
José Carlos Basilio (Cinvestav, Mexico)
Fernanda Hernández García (Cinvestav, Mexico)
Perla Juárez Hernández (Cinvestav, Mexico)

SESSION CHAIRS

Session Chairman	Day	Hour
Luiz E. Oliveira , Instituto de Física - Unicamp, Brazil	Monday	09:30 – 10:30
Shane Johnson , Arizona State University, USA	Monday	11:00 – 13:00
Oracio Navarro , UNAM, Mexico	Tuesday	09:00 – 10:30
Sam Mil'shtein , University of Massachusetts, USA	Tuesday	11:00 – 13:00
Raphael Tsu , University of North Carolina, USA	Wednesday	09:00 – 10:30
Ramesh Mani , Georgia State University, USA	Wednesday	11:00 – 12:10
Pawel Hawrylak , University of Ottawa, Canada	Thursday	09:00 – 10:30
Guy Le Lay , Aix-Marseille University, France	Thursday	11:00 – 13:00
Carlos A. Duque , Universidad de Antioquia, Colombia	Thursday	17:00 – 18:10
Thomas Myers , Texas State University, USA	Friday	09:00 – 10:30

Invited Speakers

Kah Wee Ang, *National University of Singapore, Singapore.*

"Boosting Black Phosphorus Transistor Performance through Interface Engineering"

Carlos A. Aragão de Carvalho, *Univ. Fed. do Rio de Janeiro, Brazil.*

"The relativistic electron gas: a candidate for nature's left-handed material"

Timothy Boles, *MACOM Technology Solutions, USA.*

"GaN-on-Silicon-Present Capabilities and Future Directions"

Moritz Brehm, *Johannes Kepler University Linz, Austria.*

"Lasing in Ge dots on Si(001)"

Detlev Grutzmacher, *Peter Grunberg Institute, Germany.*

"Topological Insulators: heterostructures and p-n junctions"

Pawel Hawrylak, *University of Ottawa, Canada.*

"Electronic Structure, Magneto-excitons and Valley Polarized Electron Gas in 2D Semiconductors MoS₂ and WS₂"

Thomas Ihn, *ETH Zurich, Switzerland.*

"Spin-Orbit Coupling at the Level of a Single Electron"

Shane Johnson, *Arizona State University, USA.*

"Growth and Optical Properties of InAsSbBi/InAsSb Quantum Wells"

Lia Krusin Elbaum, *The City College of New York, USA.*

"Quantum Transport and 2DEG Quantum Well States at Topological Surfaces and Interfaces"

Guy Le Lay, *Aix-Marseille University, France.*

"Novel 2D Materials: Silicene, Germanene"

James A. Lott, *Technische Universität Berlin, Germany.*

"Low dimensional vertical-cavity surface-emitting lasers"

Thomas Myers, *Texas State University, USA.*

"New Doping Approaches For CdTe Use in Photovoltaic Devices"

Katsuhiro Tomioka, *Hokkaido University, Japan.*

"Selective-area growth of III-V nanowires on Si and transistor applications"

Carlos A. Trallero, *Kansas State University, USA.*

"Strong field processes inside solids at ultrafast time scales"

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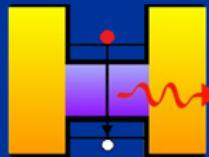
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LDSD 2016

The Eighth International Conference on Low Dimensional Structures and Devices

Mayan Riviera, Mexico August 28 – September 02, 2016

PROGRAM SCHEDULE

All sessions will take place in the Iberostar Convention Center, very close to the hotel lobby

Code/Time	Presenter	Title/Authors
Sunday, August 28		
17:00 - 19:30	REGISTRATION Convention Center	
Monday, August 29		
09:00 - 09:30	OPENING SESSION Room Isla Mujeres and Tulum, Convention Center	
I-01 09:30 - 10:00	Lia Krusin The City College of New York - CUNY, USA	Quantum Transport and 2DEG Quantum Well States at Topological Surfaces <i>Lia Krusin-Elbaum</i>
I-02 10:00 - 10:30	Detlev Grützmacher Forschungszentrum Jülich, Germany	Topological Insulators: heterostructures and p-n junctions <i>Detlev Grützmacher</i>
10:30 - 11:00	Coffee Break	
I-03 11:00 - 11:30	Carlos Alberto Aragão de Carvalho Instituto de Física - UFRJ, Brazil	The relativistic electron gas: a natural candidate for a left-handed material <i>C. A. A. de Carvalho</i>
Mo-1 11:30 - 11:50	Zhuo Wang Georgia State University, USA	Superconducting-contact-induced resistance-anomalies in the 3D topological insulator Bi ₂ Te ₃ <i>Z. Wang, Y. T. Ye, R. G. Mani</i>
Mo-2 11:50 - 12:10	Jorge I. Cerdá Materials Science Institute of Madrid, Spain	Tunable Dirac electron and hole self-doping of topological insulators induced by stacking defects <i>H. Aramberri, J.I. Cerdá and M.C. Muñoz</i>
Mo-3 12:10 - 12:30	Luiz Eduardo Oliveira Instituto de Física - Unicamp, Brazil	Gap soliton-induced transparency in Kerr-metamaterial heterostructures <i>L. E. Oliveira, E. Reyes-Gómez, S. B. Cavalcanti, C. A. A. de Carvalho</i>
I-04 12:30 - 13:00	Carlos A. Trallero-Herrero Kansas State University, USA	Strong field excitation of solids by ultrafast fields <i>C. A. Trallero-Herrero, D. J. Wilson, A. M. Summers, G. Jnawali, B. Flanders, C. Sorensen, J. Edgar</i>
19:30 - 21:00	Welcome Reception Plaza Paraiso Shopping Center	
Tuesday, August 30		
08:30 - 09:00	REGISTRATION	
I-05 09:00 - 09:30	Timothy Boles MACOM Technology Solutions, USA	GaN-on-Silicon – Present Capabilities and Future Directions <i>Timothy Boles</i>
Tu-1 09:30 - 09:50	Raphael Tsu University of North Carolina, USA	High Mobility and High Concentration Type-III Heterojunction FET <i>R. Tsu, M. A. Fiddy and T. Her</i>
Tu-2 09:50 - 10:10	Alfonso Lastras-Martínez Universidad Autónoma de San Luis Potosí, Mexico	Real-time optical monitoring of semiconductor epitaxial growth <i>A. Lastras-Martínez, J. Ortega-Gallegos, L.E. Guevara-Marcías, D. Ariza-Flores, O. Núñez-Olvera, R.E. López, R.E. Balderas-Navarro and L.F. Lastras-Martínez</i>

Tu-3 10:10 - 10:30	William Brooks University of Massachusetts, USA	Solar Harvesting by Heterostructured Cell with Built-in Variable Width Quantum Wells <i>W. Brooks, H. Wang and S. Mil'shtein</i>
10:30 - 11:00	Coffee Break	
I-06 11:00 - 11:30	Moritz Brehm JKU Linz, Austria	Lasing in Ge dots on Si(001) <i>M. Brehm</i>
Tu-4 11:30 - 11:50	Pawel Szumniak University of Basel, Switzerland	Long distance entanglement of electron soliton spin qubits in gated semiconductors nanowires <i>P. Szumniak, S. Bednarek, and Daniel Loss</i>
Tu-5 11:50 - 12:10	Joaquín De La Torre Medina Universidad Nacional Autónoma de México, Mexico	Magnetic anisotropy enhancement in Ni nanowires induced by size effects <i>J. De la Torre Medina, G. Hamoir, Y. Velázquez-Galván, S. Pouget, H. Okuno, L. Vila, A. Encinas, and L. Piraux</i>
Tu-6 12:10 - 12:30	Annika Kriisa Georgia State University, USA	Comparative study of radiation-induced magnetoresistance oscillations and remotely sensed reflected power signal in a high mobility GaAs/AlGaAs 2DES <i>Annika Kriisa, H-C. Liu, R. L. Samarweera, M. S. Heimbeck, H. O. Everitt, W. Wegscheider, and R.G. Mani</i>
I-07 12:30 - 13:00	Katsuhiro Tomioka Hokkaido University, Japan	Selective-area growth of III-V nanowires on Si and transistor applications <i>K. Tomioka, J. Motohisa, T. Fukui</i>
13:00 - 17:00	Lunch	
17:00 - 19:30	POSTER SESSION	
Wednesday, August 31		
08:30 - 09:00	REGISTRATION	
I-08 09:00 - 09:30	Guy Le Lay Aix-Marseille University, France	Novel 2D Materials: Silicene and Germanene <i>G. Le Lay</i>
We-1 09:30 - 09:50	Ramesh Mani Georgia State University, USA	Size dependent giant magnetoresistance in millimeter-scale GaAs/AlGaAs 2D electron devices <i>R. G. Mani, A. Kriisa, W. Wegscheider</i>
We-2 09:50 - 10:10	Andreas Schramm Tampere University of Technology, Finland	Site-controlled InAs quantum dots for quantum dot cellular automata <i>A. Schramm, L. Juhola, A. Gerkis, J.M. Kontio, J. Tommila, E. Koski, T.V. Hakkarainen, J. Tiihonen, I. Kylänpää, T. Rantala, T. Niemi, D. Lupo, M. Guina</i>
We-3 10:10 - 10:30	Carlos A. Duque University of Antioquia, Colombia	Numerical optical properties study of a conical quantum dot <i>A. Gil-Corrales, A. L. Morales, and C. A. Duque</i>
10:30 - 11:00	Coffee Break	
I-09 11:00 - 11:30	Pawel Hawrylak University of Ottawa, Canada	Electronic Structure, Magneto-excitons and Valley Polarized Electron Gas in 2D Semiconductors MoS₂ and WS₂ <i>Pawel Hawrylak</i>
We-4 11:30 - 11:50	Robert Kudrawiec Wrocław University of Science and Technology, Poland	Photoreflectance spectroscopy of direct optical transitions in MoS₂, MoSe₂, WS₂, and WSe₂ <i>J. Kopaczek, F. Dybała, M. Polak, P. Scharoch, K. Wu, B. Chen, S. Tongay, R. Kudrawiec</i>
We-5 11:50 - 12:10	Miguel Eduardo Mora-Ramos Universidad Autonoma del Estado de Morelos, Mexico	Long wavelength polar optical phonons in zincblende nitride low dimensional heterostructures. Application of the complete continuum electro-elastic model <i>Miguel E. Mora-Ramos</i>
12:45 - 18:00	Excursion to Tulum Departure at the entrance of the Convention Center	

Thursday, September 01		
08:30 - 09:00	REGISTRATION	
I-10 09:00 - 09:30	Shane Johnson Arizona State University, USA	Growth and Optical Properties of InAsSbBi/InAsSb Quantum Wells <i>Shane R. Johnson, Preston T. Webster, Arvind J. Shalindar</i>
Th-1 09:30 - 09:50	Stanko Tomić University of Salford, UK	Entangled and single photon sources for entire visible spectra based on wurtzite InGaN QD <i>S. Tomić, J. Pal, M. Migliorato, R. Young, and N. Vukmirović</i>
Th-2 09:50 - 10:10	Marta Gladysiewicz- Kudrawiec Wroclaw University of Science and Technology, Poland	Electronic band structure and material gain of III-V-Bi quantum wells grown on GaAs, InP and GaSb substrates <i>M. Gladysiewicz, R. Kudrawiec, M. S. Wartak</i>
Th-3 10:10 - 10:30	Vanessa Orsi Gordo Universidade Federal de São Carlos, UFSCar, Brazil	Optical and magnetic optical properties of (311)B GaAsBi/GaAs quantum wells <i>V. Orsi Gordo, G. A. Prando, M. A. G. Balanta, B. H. Bononi dos Santos, J. Puustinen, H. V. A. Galeti, H. M. Alghamdi, M. R. Piton, M. Henini, M. Guina, Y. Galvão Gobato</i>
10:30 - 11:00	Coffee Break	
I-11 11:00 - 11:30	Kah-Wee Ang National University of Singapore, Singapore	Boosting Black Phosphorus Transistor Performance through HfO ₂ /BP Interface Engineering <i>Kah-Wee Ang</i>
Th-4 11:30 - 11:50	Jonathan Guerrero- Sanchez Universidad Nacional Autonoma de Mexico, Mexico	Formation of InN atomic-size wires by simple N adsorption on the In/Si(111)-(4x1) surface. <i>J. Guerrero-Sanchez and Noboru Takeuchi</i>
Th-5 11:50 - 12:10	Nataliya Demarina Forschungszentrum Juelich, Germany	Impact of surface states on electronic band structure and electron density in InAs nanowires <i>V. Degtyarev, S. Khazanova, D. Gruetzmacher, N. Demarina</i>
Th-6 12:10 - 12:30	Daniel Fan Paul Scherrer Institut, Switzerland	Strain of suspended silicon nanowires below 15 nm width <i>D. Fan, H. Sigg, R. Spolenak, Y. Ekinci</i>
I-12 12:30 - 13:00	James Lott Technische Universität Berlin, Germany	Low Dimensional Vertical-Cavity Surface-Emitting Lasers <i>J. A. Lott</i>
13:00 - 17:00	Lunch	
I-13 17:00 - 17:30	Thomas Myers Texas State University, USA	New Doping Approaches for CdTe Use in Photovoltaic Devices <i>Thomas Myers</i>
Th-7 17:30 - 17:50	Arturo Morales-Acevedo Cinvestav - IPN, Mexico	Beyond the 22% Record Efficiency for CdTe Based Solar Cells <i>Arturo Morales-Acevedo</i>
Th-8 17:50 - 18:10	Juan Carlos Salcedo-Reyes Pontificia Universidad Javeriana, Colombia	Enhancing light extraction efficiency in MDMO-PPV OLEDs by mean of the incorporation of SiO ₂ -250nm colloidal crystals <i>J. Vázquez, H. A. Méndez-Pinzón, J.C. Salcedo-Reyes</i>
Th-9 18:10 - 18:30	Ofir Sorias Technion – Israel Institute of Technology, Israel	Epitaxial Nanoflag Photonics: Growing Embedded Semiconductor Nanoemitters, Nanodetectors and Nanoantennas <i>O. Sorias, A. Kelrich, R. Gladstone, D. Ritter and M. Orenstein</i>
20:00 - 23:00	Conference Banquet	

Friday, September 02

I-14 09:00 - 09:30	Thomas Ihn ETH Zurich, Switzerland	Spin-Orbit Coupling at the Level of a Single Electron <i>A. Hofmann, V. Maisi, J. Bassett, M. Röösli, C. Reichl, W. Wegscheider, K. Ensslin, T. Ihn</i>
Fr-1 09:30 - 09:50	Guilherme Sipahi Universidade de São Paulo, Brazil	InSb nanowires electronic structure: realistic spin-orbit splittings and effective masses <i>Guilherme Sipahi, Tiago de Campos, Paulo E. Faria Junior, Martin Gmitra, Jaroslav Fabian</i>
Fr-2 09:50 - 10:10	Hanz Y. Ramírez Universidad Pedagógica y Tecnológica de Colombia, Colombia	Dipolariton formation and photon blockade in quantum dot molecules strongly coupled to optical resonators <i>M. S. Domínguez, D. F. Macias and H. Y. Ramírez</i>
Fr-3 10:10 - 10:30	Sam Mil'shtein University of Massachusetts, USA	Design of High Efficient Si _x Ge _{1-x} HBT <i>Kasey Chatzopoulos, Sam Mil'shtein</i>
10:30 - 11:00	CLOSING SESSION Convention Center	

POSTER SESSION

Tuesday, August 30

Room Cancun

Tu-P01 17:00 - 19:30	Ricardo Cisneros Tamayo Instituto Politécnico Nacional, Mexico	Relationship between optical and structural properties on InAs Quantum dots embedded in strain reduced InAlGaAs layers with thermal annealing. <i>T. V. Torchynska, R. Cisneros-Tamayo, L. G. Vega Macotela</i>
Tu-P02 17:00 - 19:30	David Laroze Universidad de Tarapacá, Chile	Optical transitions in two-dimensional quantum dots and quantum rings <i>D. Laroze, M. G. Barseghyan, A. A. Kirakosyan</i>
Tu-P03 17:00 - 19:30	Fredy Rodríguez Prada Universidad de Santander; Universidad Industrial de Santander, Colombia	Effect of depth of the central hole and of anisotropy azimuthal on the Aharonov-Bohm oscillations in a wide nanoring <i>F. A. Rodríguez-Prada, W. Gutiérrez, I. D. Mikhailov</i>
Tu-P04 17:00 - 19:30	Francisco de Santiago Instituto Politécnico Nacional, Mexico	DFT study of molecular doping, dangling bonds and nonmagnetic doping in silicon nanowires <i>F. de Santiago, A. Miranda, A. Trejo, E. Carvajal, L.A. Pérez, M. Cruz-Irisson</i>
Tu-P05 17:00 - 19:30	Willian Gutiérrez Universidad Industrial de Santander, Colombia	Hybridization of Electronic States of Lateral Quantum Dot Molecules <i>E. Rodríguez, F. A. Rodríguez, W. Gutiérrez</i>
Tu-P06 17:00 - 19:30	José Carlos Basilio-Ortiz Cinvestav-IPN, Mexico	Study of the excitation power dependence of the excitonic emission intensity of double quantum well systems <i>J. C. Basilio-Ortiz, L. F. Hernández-García, F. Sutara, I. Hernández-Calderón</i>
Tu-P07 17:00 - 19:30	Pawel Szumniak University of Basel, Switzerland	Chiral and non-chiral edge states in quantum Hall systems with charge density modulation <i>P. Szumniak, Jelena Klinovaja, and Daniel Loss</i>
Tu-P08 17:00 - 19:30	Guilherme Sipahi Universidade de São Paulo, Brazil	Quantum transport for holes through Q2D nitride-based multilayered superlattices <i>G. M. Sipahi, S. C. P. Rodrigues, L. Diago-Cisneros</i>
Tu-P09 17:00 - 19:30	Adrián Alfaro-Martínez DNYN Program Cinvestav, Mexico	Study of ZnSe LO phonons by Resonant Raman Scattering of CdSe/ZnSe QW heterostructures during photoluminescence experiments with a HeCd laser <i>A. Alfaro-Martínez, I. Hernández-Calderón</i>
Tu-P10 17:00 - 19:30	Agata Laurencikova Slovak Academy of Sciences, Slovakia	AlGaAs/GaAs LED surface modified with 1D Fresnel structure <i>A. Laurenčíková, I. Lettrichová, D. Pudiš, S. Hasenöhrl, Š. Haščík, J. Dérer, J. Novák</i>
Tu-P11 17:00 - 19:30	Luiz Eduardo Oliveira Instituto de Física - Unicamp, Brazil	Properties of 1D polaritonic-metamaterial photonic superlattices <i>Rafael F. Barros, E. Reyes-Gómez, L. E. Oliveira, A. Latgé</i>

Tu-P12 17:00 - 19:30	Yanín Guerra Santillán Universidad Nacional Autónoma de México (UNAM), Mexico	Theoretical study of the transmission properties of a one-dimensional polycarbonate-methanol photonic array. A. Sánchez, K. Yanín Guerra, A. V. Porta, S. Orozco
Tu-P13 17:00 - 19:30	Juan Carlos Banthí-Barcenas Cinvestav - IPN, Mexico	Design, growth and characterization of a quantum well based on a ZnCdSe/ZnTe type II heterostructure confined within ZnSe barriers J. C. Banthí, F. Sutara, I. Hernández-Calderón
Tu-P14 17:00 - 19:30	Judith Ojeda Universidad Pedagógica y Tecnológica de Colombia, Colombia	Theoretical study of the transport properties through an aromatic molecular wire using a renormalization method J. H. Ojeda, C. A. Duque, D. Laroze
Tu-P15 17:00 - 19:30	Sarita Peláez Instituto Politécnico Nacional, ESIME-Culhuacán, Mexico	Phonon thermal conductivity using the Kubo-Greenwood formula in Au₁₃ cluster L. F. Mendoza Villegas, S. Peláez Martínez, F. Salazar Posadas, L. A. Pérez-López
Tu-P16 17:00 - 19:30	A.I. Oliva Cinvestav - IPN, Unidad Mérida, Mexico	Methodology for thermal properties determination of metallic films at nano-thickness. A. I. Oliva, J.M. Lugo, R. A. Gurubel-González, R. J. Centeno-Santana, J.E. Corona, F. Avilés
Tu-P17 17:00 - 19:30	Leo Diago-Cisneros Universidad de La Habana, Cuba. Universidad Iberoamericana, Mexico	Exploring Multiband Systems via Polynomial Multicomponent Approach Sara Zapata Marín, J. A. Reyes-Retana, A. Mendoza-Álvarez, G. Fernández-Anaya, J. J. Flores-Godoy and L. Diago-Cisneros
Tu-P18 17:00 - 19:30	Álvaro Miranda-Durán Instituto Politécnico Nacional, Mexico	Oxygen and hydrogen diffusion in the Sr₂Fe_{1-x}Mo_xO₆ compounds, for application as SOFCs' electrodes J. Rosas, A. Torres, A. Miranda, E. Carvajal, M. Cruz-Irisson
Tu-P19 17:00 - 19:30	Joaquín De La Torre Medina Universidad Nacional Autónoma de México, Mexico	Ferromagnetic resonance study of non-stoichiometric double perovskite Sr₂Fe_{1+x}Mo_{1-x}O₆ J. De la Torre Medina, L. Piraux, T. E. Soto, R. Morales, O. Navarro
Tu-P20 17:00 - 19:30	Heber Hernández-Arriaga CIACyT - UASLP, Mexico	HfO₂-TiO₂ Nanolaminates grown by Atomic Layer Deposition H. Hernández-Arriaga, E. Martínez, M.A. Vidal, E. López-Luna
Tu-P21 17:00 - 19:30	Han-Chun Liu Georgia State University, USA	Study of the quasi-continuous evolution of the phase shift in a linear polarization angle of the microwave radiation-induced magnetoresistance oscillations H.-C. Liu, R. L. Samaraweera, C. Reichl, W. Wegscheider, R. G. Mani
Tu-P22 17:00 - 19:30	Binuka Gunawardana Georgia State University, USA	Magnetoresistance oscillations induced by bichromatic microwave excitation in the high mobility GaAs/AlGaAs system B. Gunawardana, Han-Chun Liu, R. L. Samaraweera, W. Wegscheider, R.G. Mani
Tu-P23 17:00 - 19:30	Oracio Navarro Universidad Nacional Autónoma de México, Mexico	Giant Magnetoresistance in a Silicene Structure O. Oubram, O. Navarro, I. Rodríguez-Vargas, E.J. Guzman
Tu-P24 17:00 - 19:30	Yoder Suaza Universidad Nacional de Colombia, Colombia	Geometrical and electro-magnetic field effects on the hydrogenic donor impurity energy structure in a non-uniform quantum strip Y. A. Suaza, D. Fonnegra, M. Fulla, J. H. Marín C.
Tu-P25 17:00 - 19:30	Rasanga Samaraweera Georgia State University, USA	Study of coexisting radiation-induced magneto-resistance oscillations and bell-shape negative giant magnetoresistance in the GaAs/AlGaAs 2DES R. L. Samaraweera, H. C. Liu, Z. Wang, W. Wegscheider, R. G. Mani
Tu-P26 17:00 - 19:30	Jorge Ortega Instituto de Investigación en Comunicación Óptica, UASLP, Mexico	Rapid Reflectance-Anisotropy Spectroscopy as an optical probe for real time monitoring of thin films deposition J. Ortega-Gallegos, A. Lastras-Martínez, L.E. Guevara-Macías, D. A. Ariza-Flores, R.E. Balderas-Navarro, L.F. Lastras-Martínez

Tu-P27 17:00 - 19:30	Maxim Solodovnik Southern Federal University, Russia	Influence of Ga surface diffusion on the morphology of GaAs islands grown by MBE <i>O. A. Ageev, M. S. Solodovnik, S. V. Balakirev, M. M. Eremenko</i>
Tu-P28 17:00 - 19:30	Leonardo Vega-Macotela National Polytechnic Institute, Mexico	Capping layer modulation of composition of GaAs/In_{0.15}Ga_{0.75}As/In_xGa_{1-x}As/GaAs quantum wells and InAs QD's emission. <i>T. V. Torchynska, L. G. Vega Macotela, G. Polupan and P.I. Muñiz- García</i>
Tu-P29 17:00 - 19:30	Leonardo Vega-Macotela National Polytechnic Institute, Mexico	Emission of InAs QD's embedded in GaAs/In_{0.15}Ga_{0.85}As/GaAs quantum wells and its variation with QD's density <i>L. G. Vega Macotela, T. V. Torchynska, G. Polupan and R. Cisneros-Tamayo</i>
Tu-P30 17:00 - 19:30	Mulayim Ongun Ukelge Adana Science and Technology University, Turkey	Determination of Strain induced Band discontinuities in GaAs_{1-x}Bix /GaAs single QW by Model Solid Theory <i>M. O. Ukelge, Y. E. Tanrikulu, M. Gunes, C. Gumus, H. Alghamdi, Y. Galvão Gobato, M. Henini</i>
Tu-P31 17:00 - 19:30	Stanko Tomić University of Salford, UK	Effect of large biexciton binding energy in type II CdSe/CdTe QDs on efficiency of MEG solar cells <i>S. Tomić, J. Miroszewski, E.J. Tyrrell, and D. Binks</i>
Tu-P32 17:00 - 19:30	Sam Mil'shtein University of Massachusetts, USA	Cascaded Ga_{1-x}Al_xAs/GaAs Solar Cell with Graded i-Region <i>Sam Mil'shtein, Samed Halilov</i>
Tu-P33 17:00 - 19:30	Eliel Carvajal Quiroz Instituto Politécnico Nacional, Mexico	Perovskite thin film systems for photovoltaic applications <i>I. Ornelas, J.J.J. Díaz, A. Trejo, E. Carvajal, M. Cruz-Irisson</i>
Tu-P34 17:00 - 19:30	Gabriela Menserrat Camacho González Instituto Politécnico Nacional, Mexico	Optical kerr nonlinear effects in photoconductive zinc oxide thin solid films chromium nanoclusters. <i>E. Velázquez Lozada, G. M. Camacho González</i>
Tu-P35 17:00 - 19:30	Sergey Balakirev Southern Federal University, Russia	Effect of ZnO films upon the surface morphology during GaAs MBE growth <i>O. A. Ageev, M. S. Solodovnik, S. V. Balakirev, M. M. Eremenko, I. A. Mikhaylin</i>
Tu-P36 17:00 - 19:30	Erick Velázquez Lozada Instituto Politécnico Nacional, Mexico	Photoluminescence emission at aging in ambient air of ZnO:Ag nanocrystals obtained by ultrasonic spray pyrolysis. <i>E. Velázquez-Lozada, T. Torchynska</i>
Tu-P37 17:00 - 19:30	Erick Velázquez Lozada Instituto Politécnico Nacional, Mexico	Influence of aluminum concentration and substrate temperature in chemical sprayed ZnO:Al thin solid films. <i>E. Velázquez-Lozada, T. Torchynska</i>

All technical sessions will take place in the Iberostar Convention Center, very close to the hotel lobby.

