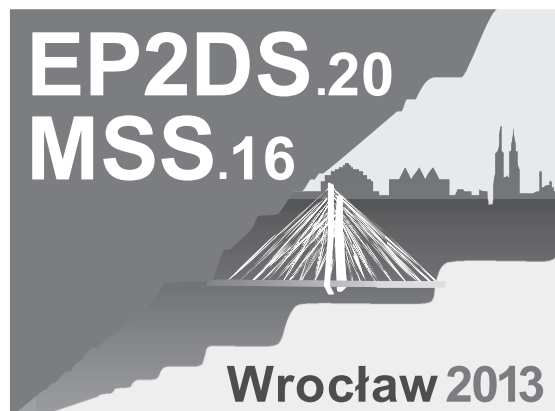




20th International Conference on
Electronic Properties of Two-Dimensional Systems

and

16th International Conference on
Modulated Semiconductor Structures

Participant's Guide

1 – 5 July 2013

Wrocław University of Technology Congress Centre
Wrocław, Poland

Conference venue

The conference is held at Wrocław University of Technology – Congress Center (so-called: Building D-20), Janiszewskiego Str. 8.

The Congress Center is located on the main campus of the Wrocław University of Technology, about 2 km from the historical centre of the city, 20 minutes by public transport from the main railway station and about 10 km from the airport.

Wrocław University of Technology

Wrocław University of Technology is an autonomous technical university in Wrocław, Poland. It is a leading Polish university, ranked in the top five nationwide in academic quality and prestige. The University is beautifully located on the Oder river, inside the triangle set by Grunwaldzki Bridge, Grunwaldzki Square, and Zwierzyniecki Bridge, only 2 km from the main attractions of historic downtown.

City of Wrocław

Wrocław is 1000 years old City, with the population over 600 000. It is the capital of the south-western province of Poland “Lower Silesia”. It is majestically situated on 12 islands on river Odra, linked by over 150 bridges. It is also the third largest Polish educational centre, with 170 000 students and 6 300 academic staff in 30 colleges, including Wrocław University of Technology as the largest one.

Social Program

The following special attractions are offered free of charge to all registered participants and accompanying persons.

Guided city excursions (Wednesday, 13.30 – 16.15)

We propose a few guided excursions around the most interesting places in Wrocław, e.g.:

The oldest part of the city: The Old Town includes the Gothic St. John's Cathedral, the Renaissance houses near the Market Square, the Baroque university and lots of fine examples of Art Nouveau and Functionalism.

The Centennial Hall and the Japanese Garden: The Centennial Hall is the most famous work of Wrocław Modernism. It was listed as a UNESCO World Heritage Site in 2006. The Japanese Garden located within Szczytnicki Park is one of the few traces of the 1913 World's Fair that was held in Wrocław.

The Quarter of Tolerance: The Quarter of Four Temples also known as The Quarter of Tolerance is an old part of the city, where four religions coexist: Lutheran Protestantism, Orthodox Christianity, Catholicism and Judaism.

Conference Banquet (Wednesday, 19.30 – 21.00)

The Conference Banquet will take place in the splendid City Hall at the heart of our historic Market Square. Address: Rynek 30, 50-102 Wrocław.

Music Concert (Thursday, 20.00 – 21.00)

The Music Concert is planned in Wrocław's magnificent Opera House located within walking distance of Market Square. Soloists of the opera will present the specially chosen repertoire. Address: Świdnicka 35, 50 - 066 Wrocław.

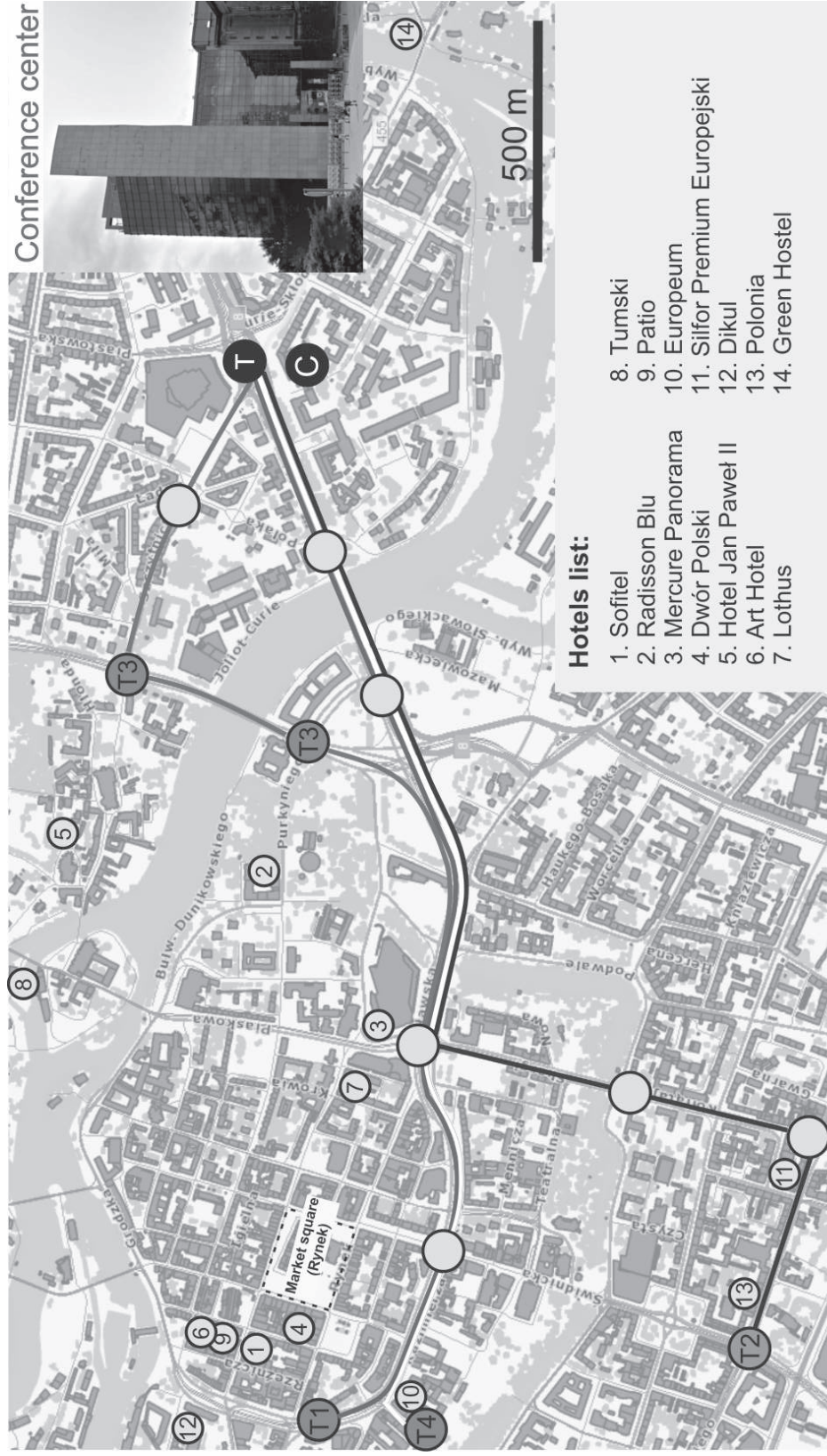
Additional attractions are also available at modest fees (detailed information is available at registration desks).

Hotels

Sofitel (*****)	Św. Mikołaja 67, 50-127 Wrocław
Radisson Blu (*****)	Purkyniego 10, 50-156 Wrocław
Mercure Panorama (****)	Pl. Dominikański 1, 50-159 Wrocław
Dwór Polski (****)	Kiełbaśnicza 2, 50-108 Wrocław
Hotel Jan Paweł II (****)	Św. Idziego 2, 50-328 Wrocław
Art Hotel (****)	Kiełbaśnicza 20, 50-110 Wrocław
Lothus (***)	Wita Stwosza 22/23, 50-148 Wrocław
Tumski (***)	Wyspa Słodowa 10, 50-266 Wrocław
Patio (***)	Kiełbaśnicza 25, 50-110 Wrocław
Europeum (***)	Kazimierza Wielkiego 27a, 50-077 Wrocław
Silfor Premium Europejski (***)	Piłsudskiego 88, 50-017 Wrocław,
Dikul (***)	Cieszyńskiego 17-19, 50-136 Wrocław
Polonia (**)	Piłsudskiego 66, 50-020 Wrocław
Green Hostel	Mickiewicza 4, 51-619 Wrocław

Food and Restaurants

There are several small bars in the vicinity of Wrocław University of Technology campus. On the top floor of Pasaż Grunwaldzki shopping mall, located 200 m from the conference venue, one can find plenty of restaurants.



T Destination: pl. Grunwaldzki

C Conference center

Tickets can be bought in kiosk (coins or card) or tram (by pass and debit card)

Sunday 30 June, 6-9pm
REGISTRATION AND WELCOME
 Conference venue (Congress Center)
 Small get-together party, wine/snacks

CONFERENCE VENUE:
Wroclaw University of Technology – Congress Center
 (so-called: Building D-20)
 Address: Janiszewski Street 8

EP2DS Time Schedule

8:00	Monday 1 July	Tuesday 2 July	Wednesday 3 July	Thursday 4 July	Friday 5 July
15	REGISTRATION				
30					
45	OPENING	REGISTRATION	REGISTRATION	REGISTRATION	REGISTRATION
9:00	JAMES EISENSTEIN	Philip Kim	Clement Faugeras	Michael Fuhrer	JACQUELINE BLOCH
15		Jaskólski	Tarasenko	Michetti	
30		Szkopek	Ziegler	Suzuki	
45	TAKAO SOMEYA	Calado	Mani	Wolgast	PAWEL HAWRYLAK
10:00		Nicholas	Chiappini	Baum	
15					
30	COFFEE	COFFEE	COFFEE	COFFEE	COFFEE
45	JAINENDRA JAIN	Thibaut Jullien	Koji Muraki	Jurgen Smet	TOMASZ WOJTOWICZ
11:00		Parmentier	Friess	Zudov	
15		Fletcher	Liu	Stegmann	
30	SHOUCHEG ZHANG	Bocquillon	Quinn	Shilo	KONSTANTIN NOVOSELOV
12:00		Ito	Kamburov	Rickhaus	
15					
45	LUNCH	LUNCH	LUNCH	LUNCH	CLOSING
13:00					
15					
30					
45					
14:00	Ursula Wurstbauer	Sergei Studenikin	EXCURSION	Boris Narozhny	
15	Rhone	Mavalankar		Mucha-Kruczynski	
30	Hayakawa	Brun		Adam	
45	Gurman	Kraehenmann		Delplace	
15:00	BREAK	BREAK		BREAK	
15	Tomasz Story	Harold Hwang		Manfred Helm	
30	Wiedmann	Falson	Yoneda		
45	Springholz	Tonndorf	Pakmehr		
17:00	Choi	Adams	MAJORANA SESSION	Okazaki	
15	POSTERS	Sundaram	Sankar Das Sarma Leo Kouwenhoven Moty Heiblum Piet Brouwer Leonid Rokhinson Charles Marcus	POSTERS	
30					
45					
18:00					
15					
30					
45					
19:00					

BANQUET (19:30)	CONCERT (20:00)
Wroclaw City Hall	Wroclaw Opera House
Address: Rynek 30	Address: Świdnicka 35

Sunday 30 June, 6-9pm

REGISTRATION AND WELCOME

Conference venue (Congress Center)

Small get-together party, wine/snacks

CONFERENCE VENUE:

Wroclaw University of Technology – Congress Center

(so-called: Building D-20)

Address: Janiszewski Street 8

MSS Time Schedule

	Monday 1 July	Tuesday 2 July	Wednesday 3 July	Thursday 4 July	Friday 5 July
8:00					
15	REGISTRATION				
30					
45	OPENING	REGISTRATION	REGISTRATION	REGISTRATION	REGISTRATION
9:00					
15	JAMES EISENSTEIN	Balakrishnan	Yu	Kümmel	JACQUELINE BLOCH
30		Alexander-Webber	Pribiag	Goryca	
45		Yoh	Fujisawa	Reithmaier	
10:00					
15	TAKAO SOMEYA	Pei	Dunker	Schwartz	PAWEŁ HAWRYŁAK
30		Wolfgang Pfaff	Atac Imamoglu	Peter McMahon	
45	COFFEE	COFFEE	COFFEE	COFFEE	COFFEE
11:00					
15	JAINENDRA JAIN	Maissen	Kubo	Scarlino	TOMASZ WOJTOWICZ
30		Cerda-Mendez	Chen	Drachenko	
45		Sich	Ares	Nagasawa	
12:00					
15	SHOUCHENG ZHANG	Grosso	Oltcher	Hernandez-Minguez	KONSTANTIN NOVOSELOV
30		Stephan Reitzenstein	Alberta Bonanni	Jairo Sinova	
45					CLOSING
13:00	LUNCH	LUNCH	LUNCH	LUNCH	
15					
30					
45					
14:00					
15	Schwarz	Sellier		Ubbelohde	
30	Cerulo	Lee		Nowak	
45	Sturm	Krenner		Thalineau	
15:00					
15	Yasuhiko Arakawa	Haruki Sanada		Takafumi Fujita	
30	BREAK	BREAK	EXCURSION	BREAK	
45					
16:00					
15	Fischer	Trotta		Laroche	
30	Askenazi	Syperek		Ganjipour	
45	Antón	Müller		Takada	
17:00					
15			MAJORANA SESSION	Alex Hamilton	
30					
45					
18:00					
15	POSTERS	POSTERS	Sankar Das Sarma Leo Kouwenhoven Moty Heiblum Piet Brouwer Leonid Rokhinson Charles Marcus	POSTERS	
30					
45					
19:00					

BANQUET (19:30)

Wroclaw City Hall
Address: Rynek 30

CONCERT (20:00)

Wroclaw Opera House
Address: Świdnicka 35

1 July (Monday)

8.30

Official Opening of the Conference

Tadeusz Więckowski, Rector of Wrocław University of Technology

Plenary Session 1

Chair: **Klaus von Klitzing**

(Max Planck Institute for Solid State Research, Stuttgart, Germany)

9.00 – 9.45

MoPlenary1

James P. Eisenstein (*Caltech, USA*)

Recent results from single and double layer quantum Hall systems

9.45 – 10.30

MoPlenary2

Takao Someya (*University of Tokyo, Japan*)

Ultraflexible and stretchable organic devices

Plenary Session 2

Chair: **Yasuhiko Arakawa**

(University of Tokyo, Japan)

11.00 – 11.45

MoPlenary3

Jainendra K. Jain (*Penn State University, USA*)

Fractional quantum Hall effect: What's new

11.45 – 12.30

MoPlenary4

Shoucheng Zhang (*Stanford University, USA*)

Completion of the quantum Hall trio

EP2DS Session 1

Chair: **Mansour Shayegan**
(Princeton University, USA)

14.00 – 14.30 **MoIE1**

Ursula Wurstbauer

Coexistence of phases and gapped excitations in the second LL: Fundamental insights from inelastic light scattering

14.30 – 14.45 **MoOE1**

Trevor D. Rhone, Lars Tiemann, Koji Muraki

NMR reveals maximum spin polarization in the presence of Wigner crystal domains at $\nu \sim 3$

14.45 – 15.00 **MoOE2**

Junichiro Hayakawa, Koji Muraki, Go Yusa

Real-space imaging of fractional quantum Hall effect

15.00 – 15.15 **MoOE3**

I. Gurman, R. Sabo, M. Heiblum, V. Umansky, D. Mahalu

Extracting net current from an upstream neutral mode in the fractional quantum Hall regime

MSS Session 1

Chair: **Juan Ignacio Climente**
(Universitat Jaume I, Spain)

14.00 – 14.15 **MoOM1**

B. Schwarz, P. Reininger, W. Schrenk, H. Detz, O. Baumgartner, T. Zederbauer, A. M. Andrews, H. Kosina, G. Strasser
Monolithically integrated quantum cascade laser and detector

14.15 – 14.30 **MoOM2**

G. Cerulo, V. Liverini, P. Friedli, H. Sigg, Fais
Optically driven current turnstile based on self-assembled semiconductor quantum dots

14.30 – 14.45 **MoOM3**

C. Sturm, D. Tanese, H.S. Nguyen, H. Flayac, E. Gallopin, A. Lemaître, I. Sagnes, D. Solnyshkov, A. Amo, G. Malpuech, J. Bloch
All-optical controlled polariton Mach-Zehnder interferometer

14.45 – 15.15 **MoIM1**

Y. Arakawa, M. Holmes, P. Podemski, K. Choi, M. Arita, S. Kako
Advances in GaN quantum dots for coherent control

EP2DS Session 2

Chair: **Witold Bardyszewski**

(University of Warsaw, Poland)

15.45 – 16.15

MoIE2

Tomasz Story

Topological crystalline insulator states in $\text{Pb}_{1-x}\text{Sn}_x\text{Se}$

16.15 – 16.30

MoOE4

S. Wiedmann, C. Brüne, A. Jost, F. Chiappini, C. Thienel, C. Ames, P. Leubner, U. Zeitler, J. C. Maan, H. Buhmann, L.W. Molenkamp

Ambipolar surface quantum Hall effect in the 3D TI strained HgTe

16.30 – 16.45

MoOE5

G. Springholz, J. Sanchez Barriga, H. Steiner, R. Kirchschlager, G. Bauer, A. Varykhalov, O. Rader, E. Schierle, E. Weschke, O. Caha, V. Holy

Dirac point band gap opening in ferromagnetic Mn-doped topological insulators of the bismuth chalcogenides

16.45 – 17.00

MoOE6

S.-J. Choi, S. Park, H.-S. Sim

Local and tunable geometric phase of Dirac fermions in a topological junction

MSS Session 2

Chair: **Dmitry Krizhanovskii**

(University of Sheffield, UK)

15.45 – 16.00

MoOM4

J. Fischer, I. Lederer, A. Chernenko, S. Brodbeck, A. Rahimi-Iman, M. Amthor, C. Schneider, M. Kamp, S. Höfling

Magnetic field peculiarities of three distinct excitation regimes of a quantum-well microcavity

16.00 – 16.15

MoOM5

B. Askenazi, A. Delteil, A. Vasanelli, Y. Todorov, G. Beaudoin, I. Sagnes, C. Sirtori

Ultrastrong light-matter coupling with multisubband plasmons

16.15 – 16.30

MoOM6

C. Antón, G. Tosi, M.D. Martín, Z. Hatzopoulos, G. Konstantinidis, P. Eldridge, P.G. Savvidis, L. Viña

Implementation of an AND gate with Bose-Einstein polariton condensates

16.30 – 17.00

MoIM2

L. Dominici, D. Ballarini, M. De Giorgi, E. Cancellieri, A. Bramati, G. Gigli, F.P. Laussy, D. Sanvitto

Fluids of polariton condensates: from a drop in a quantum pond to optical gates

2 July (Tuesday)

EP2DS Session 1

Chair: **Marek Potemski**

(CNRS-LNCMI, Grenoble, France)

9.00 – 9.30 **TuIE1**

Philip Kim

Electron transport in van der Waals heterostructures

9.30 – 9.45 **TuOE4**

W. Jaskólski, M. Pelc, L. Chico, A. Ayuela

Octagonal defect lines in graphene nanoribbons and carbon nanotubes

9.45 – 10.00 **TuOE2**

T. Szkopek, J. Guillemette, S.S. Sabri, B. Wu, K. Bennaceur, P.E. Gaskell, M. Savard, P.L. Lévesque, F. Mahvash, A. Guermoune, M. Siaz, R. Martel, G. Gervais

Quantum Hall effect in hydrogenated graphene

10.00 – 10.15 **TuOE3**

V. E. Calado, S. Zhu, G. C. A. M. Janssen, L. M. K. Vandersypen

Ballistic transport in CVD graphene

10.15 – 10.30 **TuOE1**

J. A. Alexander-Webber, A.M.R. Baker, T.J.B.M. Janssen, A. Tzalenchuk, S. Lara-Avila, S. Kubatkin, R. Yakimova, B.A. Piot, D.K. Maude, R. J. Nicholas

Phase-space of the breakdown of the quantum Hall effect in epitaxial graphene

MSS Session 1

Chair: **Alfred Forchel**

(Universität Würzburg, Germany)

9.00 – 9.15 **TuOM1**

N. Balakrishnan, G. Pettinari, O. Makarovsky, L. Turyanska, M.W. Fay, M. De Luca, A. Polimeni, M. Capizzi, F. Martelli, S. Rubini, A. Patanè

Laser writing of hydrogen containing III-N-Vs

9.15 – 9.30 **TuOM2**

J.A. Alexander-Webber, C. Faugeras, P. Kossacki, M. Potemski, X. Wang, H. D. Kim, S. D. Stranks, R. A. Taylor, R. J. Nicholas

High magnetic field imaging and spectroscopy of bound excitons in individual carbon nanotubes

9.30 – 9.45 **TuOM3**

Kanji Yoh, Tomotsugu Ishikura

Spin injection into InAs heterostructures beyond fundamental limit

9.45 – 10.00 **TuOM4**

Fei Pei, Edward Laird, Gary Steele, Leo Kouwenhoven

Valley-spin qubit in a carbon nanotube

10.00 – 10.30 **TuIM1**

W. Pfaff, H. Bernien, B. Hensen, G. Koolstra, M. S. Blok, L. Robledo, T. H. Taminiau, M. Markham, D. J. Twitchen, L. Childress, R. Hanson

Quantum networks with spins in diamond

EP2DS Session 2

Chair: **Klaus Ensslin**

(ETH Zurich, Switzerland)

11.00 – 11.30 TuIE2

T. Jullien, J. Dubois, P. Roulleau, F. Portier, P. Roche, Y. Jin, A. Cavanna, W. Wegscheider, D. C.hristian Glattli
Demonstration of quiet on-demand injection of electrons using Lorentzian voltage pulses

11.30 – 11.45 TuOE5

F. D. Parmentier, S. Jezouin, M. Albert, A. Anthore, U. Gennser, A. Cavanna, I. Safi, F. Pierre
Tomonaga-Luttinger physics in electronic quantum circuits

11.45 – 12.00 TuOE6

J. D. Fletcher, M. Kataoka, H. Howe, M. Pepper, P. See, S. P. Giblin, J. P. Griffiths, G. A. C. Jones, I. Farrer, D. A. Ritchie, T. J. B. M. Janssen
Measuring the size of single-electron wavepackets using a beam-chopping technique

12.00 – 12.15 TuOE7

E. Bocquillon, V. Freulon, J.-M Berroir, P. Degiovanni, B. Placais, A. Cavanna, Y. Jin, G. Feve
Electron quantum optics in quantum Hall edge channels

12.15 – 12.30 TuOE8

H. Ito, S. Mamyouda, Y. Shibata, Y. Ootuka, S. Nomura, S. Kashiwaya, M. Yamaguchi, H. Tamura, T. Akazaki
Imaging of spin-resolved quantum Hall edge states by near-field scanning optical microscopy

MSS Session 2

Chair: **Luis Vina**

(Universidad Autonoma de Madrid, Spain)

11.00 – 11.15 TuOM5

C. Maissen, G. Scalari, F. Valmorra, M. Beck, C. Reichl, W. Wegscheider, D. Hagenmuller, S. De Liberato, C. Ciuti, J. Faist
Study on the ultrastrong coupling of the cyclotron transition of two dimensional electron gases to THz split ring resonators

11.15 – 11.30 TuOM6

E. Cerda-Méndez, D. Sarkar, D.N. Krizhanovskii, S. Gavrilov, K. Biermann, M.S. Skolnick, P.V. Santos
Polaritonic two-dimensional nonlinear crystals

11.30 – 11.45 TuOM7

M. Sich, F. Fras, J. K. Chana, D.V. Skryabin, A.V. Gorbach, E.A. Cerda-Méndez, K. Biermann, R. Hey, P.V. Santos, M.S. Skolnick, D. N. Krizhanovskii
Bright polariton soliton trains in a semiconductor microcavity

11.45 – 12.00 TuOM8

G. Grosso, G. Nardin, Y. L´eger, F. Morier-Genoud, B. Deveaud
Dynamics of formation and decay of oblique dark solitons in polariton quantum fluids

12.00 – 12.30 TuIM2

C. Hopfmann, F. Albert, E. Stock, M. Lerner, C. Schneider, S. Höfling, A. Forchel, M. Kamp, S. Reitzenstein
On-chip quantum optics using electrically driven quantum dot - micropillar cavities

EP2DS Session 3

Chair: **Józef Barnaś**

(Adam Mickiewicz University in Poznań, Poland)

14.00 – 14.30 **TuIE3**

S. A. Studenikin, J. Thorgrimson, G. Poulin-Lamarre, P. Zawadski, G.C. Aers, A. S. Sachrajda

The three spin system

14.30 – 14.45 **TuOE9**

A. Mavalankar, C. G. Smith, S. J. Chorley, J.P. Griffiths, G. A. C. Jones, I. Farrer, D.A. Ritchie

Thermometry and refrigeration using quantum dots

14.45 – 15.00 **TuOE10**

B. Brun, F. Martins, S. Faniel, B. Hackens, V. Bayot, S. Huant, U. Gennser, D. Mailly, M. Sanquer, H. Sellier

Scattering gate interferometry at a quantum point contact

15.00 – 15.15 **TuOE11**

Tobias Kraehenmann, Clemens Roessler, Simon Burkhard, Thomas Ihn, Klaus Ensslin, Christian Reichl, Werner Wegscheider

Ballistic electron transfer between quantum dots

MSS Session 3

Chair: **Sigurdur I. Erlingsson**

(Reykjavik University, Iceland)

14.00 – 14.15 **TuOM9**

H. Sellier, M. Pala, S. Baltazar, P. Liu, B. Hackens, F. Martins, X. Wallart, L. Desplanque, V. Bayot, S. Huant

A novel mesoscopic phenomenon: An analog of the Braess paradox in 2DEG networks

14.15 – 14.30 **TuOM10**

E. J. H. Lee, X. Jiang, M. Houzet, R. Aguado, S. De Franceschi

Spin-resolved Andreev levels in hybrid superconductor-semiconductor nanowire devices

14.30 – 14.45 **TuOM11**

H. J. Krenner, S. S. Kapfinger, D.A. Fuhrmann, A. Wixforth, S. M. Thon, H. Kim, D. Bouwmeester, P. M. Petroff, R. Blattmann, P. Hänggi, S. Kohler

Acousto-mechanical tuning of photonic crystal nanocavity modes for quantum gate applications

14.45 – 15.15 **TuIM3**

H. Sanada, Y. Kunihashi, H. Gotoh, K. Onomitsu, M. Kohda, J. Nitta, P. V. Santos, T. Sogawa

Magnetic-field-free electron spin resonance in winding GaAs channel

EP2DS Session 4

Chair: **JanKees Maan**

(Radboud University Nijmegen, Netherlands)

15.45 – 16.15 **TuIE4**

Harold Y. Hwang

Unconventional electronic and magnetic states at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface

16.15 – 16.30 **TuOE12**

J. Falson, D. Maryenko, D. Zhang, B. Friess, Y. Kozuka, A. Tsukazaki, J. H. Smet, M. Kawasaki

Even denominator and higher Landau level fractional quantum Hall states in ZnO

16.30 – 16.45 **TuOE13**

P. Tonndorf, R. Schmidt, P. Böttger, X. Zhang, J. Börner, A. Liebig, M. Albrecht, C. Kloc, O. Gordan, D. R. T. Zahn, S. Michaelis de Vasconcellos, R. Bratschitsch

Raman and photoluminescence spectroscopy of atomically thin MoS_2 , MoSe_2 , and WSe_2

16.45 – 17.00 **TuOE14**

Philip W. Adams

Spin-resolved tunneling studies of the exchange field in ferromagnetic/superconducting bilayers

17.00 – 17.15 **TuOE15**

R. S. Sundaram, A. Lombardo, M. Engel, A. L. Eiden, U. Sassi, R. Krupke, Ph. Avouris, M. Steiner, A. C. Ferrari

Photodection and electroluminescence in single layer MoS_2

MSS Session 4

Chair: **Yoshiro Hirayama**

(Tohoku University, Japan)

15.45 – 16.00 **TuOM12**

R. Trotta, C. Ortix, E. Zallo, O.G. Schmidt, and A. Rastelli

Erasing the exciton fine structure splitting in semiconductor quantum dots

16.00 – 16.15 **TuOM13**

M. Syperek, M. Baranowski, G. Şek, J. Misiewicz, A. Löffler, S. Höfling, S. Reitzenstein, M. Kamp, A. Forchel

Atypical thermally-induced carrier relaxation processes in self-assembled $\text{In}_{0.3}\text{Ga}_{0.7}\text{As}/\text{GaAs}$ quantum dots

16.15 – 16.30 **TuOM14**

K. Müller, R. Ripszám, T. Kaldewey, M. Bichler, G. Koblmüller, G. Abstreiter, J. J. Finley

Resonant optical initialization, control and readout of a spin qubit with near unity fidelity

16.30 – 17.00 **TuIM4**

Evgeny Chekhovich

Using nuclear magnetic resonance to explore the physics of nuclear spins in semiconductor quantum dots

3 July (Wednesday)

EP2DS Session 1

Chair: **Shingo Katsumoto**

(University of Tokyo, Japan)

9.00 – 9.30 **WeIE1**

Clement Faugeras

Interaction effects in the magneto-Raman scattering response of graphene

9.30 – 9.45 **WeOE1**

S. A. Tarasenko, C. Drexler, P. Olbrich, J. Karch, M. Hirmer, F. Müller, M. Gmitra, J. Fabian, R. Yakimova, S. Lara-Avila, S. Kubatkin, M. Wang, R. Vajtai, P. M. Ajayan, J. Kono, S. D. Ganichev

Ratchet transport of carriers in graphene

9.45 – 10.00 **WeOE2**

Klaus Ziegler

Electronic transport and optical properties of graphene near instabilities

10.00 – 10.15 **WeOE3**

R. G. Mani, J. Hankinson, C. Berger, W. de Heer

Resistively detected spin resonance and zero-field pseudo spin splitting in epitaxial graphene

10.15 – 10.30 **WeOE4**

F. Chiappini, S. Wiedmann, K. S. Novoselov, A. K. Geim, R. V. Gorbachev, J. C. Maan, U. Zeitler

Single-layer graphene on h-BN in tilted magnetic fields

MSS Session 1

Chair: **Jonathan Finley**

(Walter Schottky Institut, Garching, Germany)

9.00 – 9.15 **WeOM1**

C. L. Yu, M. T. Deng, P. Caro, H. Q. Xu

Kondo correlation and spin-orbit interaction in an InSb nanowire quantum dot coupled to the Nb contacts

9.15 – 9.30 **WeOM2**

V. S. Pribiag, S. Nadj-Perge, J. W. G. van den Berg, S. M. Frolov, I. van Weperen, S. R. Plissard, E. P. A. M. Bakkers, L. P. Kouwenhoven

Electrical control of electron and hole spins in InSb nanowire quantum dots

9.30 – 9.45 **WeOM3**

T. Fujisawa, S. Sharmin, K. Muraki

Complete lifting of spin blockade under unstable electron-nuclear dynamics

9.45 – 10.00 **WeOM4**

D. Dunker, J. Debus, T. S. Shamirzaev, D. R. Yakovlev, K. S. Zhuravlev, M. Bayer

Spin properties of the indirect exciton in indirect band-gap (In,Al)As/AlAs quantum dot ensembles

10.00 – 10.30 **WeIM1**

W. Gao, P. Fallahi, E. Togan, A. Deteil, A. Imamoglu

Spin-photon quantum interface in quantum dots

EP2DS Session 2

Chair: **Aron Pinczuk**

(Columbia University, New York, USA)

11.00 – 11.30

WeIE2

Koji Muraki

NMR probing of fractional quantum Hall liquid and Wigner solid phases

11.30 – 11.45

WeOE5

B. Frieß, V. Umansky, L. Tiemann, K. von Klitzing, J. Smet

Probing the stripe phase at filling factor $5/2$ by NMR

11.45 – 12.00

WeOE6

Y. Liu, S. Hasdemir, M. Shayegan, L.N. Pfeiffer, K.W. West, K. W. Baldwin

Evidence for a nematic fractional quantum Hall state at $\nu = 5/2$ in parallel magnetic field

12.00 – 12.15

WeOE7

John J. Quinn

Method of constructing trial wavefunctions for quantum Hall states

12.15 – 12.30

WeOE8

D. Kamburov, Y. Liu, M. Shayegan, L.N. Pfeiffer, K.W. West, K.W. Baldwin

Anisotropic Fermi contour of composite fermions in tilted magnetic fields

MSS Session 2

Chair: **Junsaku Nitta**

(Tohoku University, Japan)

11.00 – 11.15

WeOM5

Toshihiro Kubo, Yasuhiro Tokura

Probing spins in spin interferometer with superconducting lead

11.15 – 11.20

WeOM6

T.-M. Chen, M. Pepper, I. Farrer, G.A.C. Jones, D. A. Ritchie

All-electrical spin injection from a quantum point contact

11.30 – 11.45

WeOM7

N. Ares, V. N. Golovach, G. Katsaros, M. Stoffel, F. Fournel, L. I. Glazman, O.G. Schmidt, S. De Franceschi

SiGe self-assembled nanostructures for quantum spintronics

11.45 – 12.00

WeOM8

M. Oltscher, M. Ciorga, M. Utz, D. Schuh, D. Bougeard, D. Weiss

Spin injection into a high mobility 2DEG system

12.00 – 12.30

WeIM2

Alberta Bonanni

Modulated semiconductor structures of magnetically doped nitrides

16.30 – 19.00

**Special session on recent progress and future perspectives
in the search for Majorana fermions in condensed matter**

Chair: **John J. Quinn** (University of Tennessee, USA)

Majorana1

Sankar Das Sarma (*University of Maryland, College Park, USA*)
Majorana in semiconductors

Majorana2

Leo Kouwenhoven (*Delft University of Technology, Netherlands*)
Majorana's in InSb nanowires

Majorana3

Moty Heiblum (*Braun Center for Submicron Research, Weizmann
Institute of Science, Israel*)
Zero-bias peaks and splitting in an Al-InAs nanowire

Majorana4

Piet W. Brouwer (*Freie Universität Berlin, Germany*)
Disordered Majorana Wires

Majorana5

Leonid Rokhinson (*Purdue University, West Lafayette, USA*)
Observation of fractional ac Josephson effect: the signature of
Majorana particles

Majorana6

Charles M. Marcus (*University of Copenhagen, Denmark*)
(Title not available)

4 July (Thursday)

EP2DS Session 1

Chair: **Elżbieta Zipper**

(University of Silesia, Katowice, Poland)

9.00 – 9.30 **ThIE1**

Michael Fuhrer

Surface conduction of topological Dirac electrons in bulk insulating Bi_2Se_3

9.30 – 9.45 **ThOE1**

Paolo Michetti, Björn Trauzettel

Devices with electrically tunable topological insulating phases

9.45 – 10.00 **ThOE2**

Kyoichi Suzuki, Yuichi Harada, Koji Onomitsu, Koji Muraki

Edge transport in InAs/GaSb topological insulating phase

10.00 – 10.15 **ThOE3**

S. Wolgast, Y. S. Eo, Ç. Kurdak, K. Sun, J.W. Allen, D.-J. Kim, Z. Fisk

Discovery of a 3D topological insulator: samarium hexaboride

10.15 – 10.30 **ThOE4**

Yuval Baum, Ady Stern

Density waves instability and a skyrmion lattice on the surface of strong topological insulators

MSS Session 1

Chair: **Seigo Tarucha**

(University of Tokyo, Japan)

9.00 – 9.15 **ThOM1**

T. Kümmell, W. Quitsch, O. Fedorych, A. Gust, C. Kruse, D. Hommel, G. Bacher

Single photon sources for room temperature operation based on $\text{CdSe}/\text{ZnS}/\text{MgS}$ quantum dots

9.15 – 9.30 **ThOM2**

M. Goryca, M. Koperski, P. Wojnar, T. Smoleński, T. Kazimierzczuk, A. Golnik, P. Kossacki

Coherent oscillations of a single Mn^{2+} spin in a CdTe quantum dot

9.30 – 9.45 **ThOM3**

G. Reithmaier, S. Lichtmannecker, T. Reichert, P. Hasch, M. Bichler, R. Gross and J. J. Finley

On-chip time resolved detection of quantum dot emission using integrated superconducting single photon detectors

9.45 – 10.00 **ThOM4**

I. Schwartz, L. Gantz, E.R. Schmidgall, E. Bordo, D. Cogan, Y. Kodriano, E. Poem, D. Gershoni

Entanglement between a dark exciton and a single photon

10.00 – 10.30 **ThIM1**

P. L. McMahon, K. De Greve, Leo Yu, J. Pelc, C. Jones, C.M. Natarajan, N. Y. Kim, E. Abe, S. Maier, C. Schneider, M. Kamp, S. Höfling, R. Hadfield, A. Forchel, M. M. Fejer, Y. Yamamoto

High-fidelity spin-photon entanglement generation using self-assembled InAs quantum dots

EP2DS Session 2

Chair: **Andrew Sachrajda**

(National Research Council of Canada, Canada)

11.00 – 11.30 **ThIE2**

Jurgen H. Smet

Fractional quantum Hall physics in graphene

11.30 – 11.45 **ThOE5**

**M. A. Zudov, P. D. Martin, A.T. Hatke,
J. D. Watson, M. J. Manfra, L. N. Pfeiffer,
K. W. West**

Giant photoresistance and a new class of
microwave-induced resistance oscillations in
GaAs/AlGaAs quantum wells

11.45 – 12.00 **ThOE6**

**Thomas Stegmann, Dietrich E. Wolf,
Axel Lorke**

Magnetotransport along a boundary: From
coherent electron focusing to edge channel
transport

12.00 – 12.15 **ThOE7**

**Y. Shilo, K. Cohen, R. Rapaport, S. Lazić,
A. Violante, R. Hey, P. V. Santos, K. West,
L. Pfeiffer**

Observation of quantum and classical
correlation regimes in cold dipolar exciton
fluids

12.15 – 12.30 **ThOE8**

**P. Rickhaus, M. Weiss, L. Marot,
C. Schönenberger**

Quantum Hall effect in graphene with
superconducting electrodes

MSS Session 2

Chair: **Ming-Wei Wu**

(University of Science and Technology of China)

11.00 – 11.15 **ThOM5**

**P. Scarlino, E. Kawakami, M. Shafiei,
L.M.K. Vandersypen, W. Wegscheider**

Spin-orbit anisotropy and relaxation of GaAs
single electron spin qubits

11.15 – 11.30 **ThOM6**

**O. Drachenko, D. Kozlov, A. Ikonnikov,
K. Spirin, V. Gavrilenko, H. Schneider,
M. Helm, J. Wosnitza**

Extra-long hole spin relaxation time in
InGaAs/GaAs quantum wells probed by
cyclotron resonance spectroscopy

11.30 – 11.45 **ThOM7**

**F. Nagasawa, D. Frustaglia, H. Saarikoski,
M. Kohda, K. Richter, J. Nitta**

Controlling of the geometric phase of
electron spin in a semiconductor ring device

11.45 – 12.00 **ThOM8**

**A. Hernandez-Minguez, K. Biermann,
R. Hey and P. V. Santos**

Electric control of spin lifetimes in GaAs
(111) quantum wells

12.00 – 12.30 **ThIM2**

J. Sinova, T. Jungwirth, A. F. Ferguson

Anti-damping intrinsic spin-orbit torque in
GaMnAs arising from Berry phase

EP2DS Session 3

Chair: **Christian Glattli**
(CEA, Saclay, France)

14.00 – 14.30 **ThIE3**
**B. N. Narozhny, M. Titov, M. Schütt,
P.M. Ostrovsky, I. V. Gornyi, A. D. Mirlin,
T. Tudorovskiy, M. I. Katsnelson**
Giant magneto-drag in graphene at the
charge neutrality

14.30 – 14.45 **ThOE9**
**M. Mucha-Kruczyński, J. R. Wallbank,
A. A. Patel, A. K. Geim, V. I. Fal'ko**
Electronic structure of monolayer and
bilayer graphene on hexagonal substrates

14.45 – 15.00 **ThOE10**
Shaffique Adam
Magnetotransport in disordered graphene
at charge neutrality

15.00 – 15.15 **ThOE11**
Pierre Delplace, Jian Li, Markus Büttiker
Magnetic field induced localization in 2D
topological insulators

MSS Session 3

Chair: **Gloria Platero**
(Material Science Institute of Madrid, Spain)

14.00 – 14.15 **ThOM9**
N. Ubbelohde, C. Fricke, F. Hohls, R. J. Haug
Spin-dependent shot noise enhancement in
a quantum dot

14.15 – 14.30 **ThOM10**
M. P. Nowak, B. Szafran
Spin blockade lifting due to phonon
mediated spin relaxation and electric dipole
spin resonance in nanowire quantum dots

14.30 – 14.45 **ThOM11**
**R. Thalineau, A. D. Wieck, C. Bäuerle,
L. Saminadayar, T. Meunier**
A few-electron quadruple quantum dot in a
closed loop

14.45 – 15.15 **ThIM3**
**T. Fujita, K. Morimoto, S. Teraoka,
G. Allison, A. Ludwig, A.D. Wieck, A. Oiwa,
S. Tarucha**
Real-time spin detection of single photo-
electrons with a double quantum dot in a g-
factor engineered quantum well

EP2DS Session 4

Chair: **Lloyd Engel**

(NHMFL, Florida State University, USA)

15.45 – 16.15 **ThIE4**

Manfred Helm

Strong-field THz spectroscopy of low-dimensional semiconductor systems

16.15 – 16.30 **ThOE12**

J. Yoneda, T. Otsuka, T. Nakajima, T. Takakura, T. Obata, H. Lu, C. Palmstrøm, A.C. Gossard, S. Tarucha

Coherent dynamics of a strongly driven single electron spin

16.30 – 16.45 **ThOE13**

M. Pakmehr, A. Stier, B. D. McCombe, C. Bruene, H. Buhmann, L. Molenkamp

THz magnetophotoreponse and spin-orbit effects in the 2DEG in a HgTe quantum well

16.45 – 17.00 **ThOE14**

Y. Okazaki, I. Mahboob, K. Onomitsu, S. Sasaki, H. Yamaguchi

Mechanical friction induced by single electron transport

MSS Session 4

Chair: **Silvano De Franceschi**

(CEA, Grenoble, France)

15.45 – 16.00 **ThOM12**

D. Laroche, G. Gervais, M. P. Lilly, J. L. Reno

Coulomb drag in vertically-integrated quantum wires

16.00 – 16.15 **ThP83**

B. Ganjipour, M. Ek, B. M. Borg, K.A. Dick, L.-E. Wernersson, L. Samuelson and C. Thelander

Electron-hole symmetry in GaSb/InAs core/shell nanowires

16.15 – 16.30 **ThOM14**

S. Takada, M. Yamamoto, S. Nakamura, K. Watanabe, C. Bauerle, A. D. Wieck, S. Tarucha

Coherent control of a single electron in a tunnel-coupled wire driven by a surface acoustic wave

16.30 – 17.00 **ThOM13**

L. W. Smith, A. R. Hamilton, K. J. Thomas, M. Pepper, I. Farrer, J. P. Griths, G.A.C. Jones, D. A. Ritchie

Compressibility measurements of the 0.7 structure in a one-dimensional quantum wire

5 July (Friday)

Plenary Session 1

Chair: **Karol Izidor Wysokiński**
(*M. Curie-Skłodowska University, Poland*)

9.00 – 9.45

FriPlenary1

Jacqueline Bloch (*LPN/CNRS, Marcoussis, France*)
Quantum fluids in semiconductor microcavities

9.45 – 10.30

FriPlenary2

Pawel Hawrylak (*National Research Council of Canada,
Ottawa, Canada*)
Semiconductor and graphene quantum dots

Plenary Session 2

Chair: **Bruce McCombe**
(*University at Buffalo, SUNY, USA*)

11.00 – 11.45

FriPlenary3

Tomasz Wojtowicz (*Polish Academy of Sciences, Warsaw,
Poland*)
II-VI diluted magnetic semiconductor nanostructures for
spintronic research

11.45 – 12.30

FriPlenary4

Konstantin S. Novoselov (*University of Manchester, UK*)
2D atomic crystals and their heterostructures

12.30

Closing

Summary remarks:

EP2DS - **Rolf Haug** (*Leibniz Universität Hannover, Germany*)

MSS - **Hideo Ohno** (*Tohoku University, Sendai, Japan*)

Conference statistics:

Arkadiusz Wójs (*Wrocław University of Technology*)

Invitation to next EP2DS/MSS

Poster Sessions

Monday, 1 July

17.00 – 19.00

Session sponsored by *LOT-QuantumDesign*

- MoP1** Vishal Panchal, Alexander Tzalenchuk, and Olga Kazakova
Screening property of bi-layer graphene investigated with scanning gate microscopy
- MoP2** Grzegorz Rut and Adam Rycerz
Pseudodiffusive conducance and Landa level hierarchy in biased graphene bilayer
- MoP3** J.M. Poumirol, W. Yu, X. Chen, X. Chen, C. Berger, W.A. de Heer, M.L. Smith, T. Ohta, W. Pan, M.O. Goerbig, D. Smirnov, and Z. Jiang
Magnetoplasmons in quasi-neutral epitaxial graphene nanoribbons
- MoP4** D. Mastrogiuseppe, A. Wong, K. Ingersent, S. Ulloa, and N. Sandler
Gate-dependent Kondo states in bilayer graphene
- MoP5** P. T. Robert, R.-J. Du, F. Wu, A. Durand, F. Hennrich, M.M. Kappes, H. v. Löhneysen, and R. Danneau
Electronic transport in carbon nanotube-graphene junctions
- MoP6** P. Rickhaus, R. Maurand, M. Weiss, C. Schönenberger, M.-H. Liu, and K. Richter
Ballistic interferences in suspended graphene: Theoretical modeling from contact to contact
- MoP7** J. Kuroki, W. Norimatsu, and M. Kusunoki
In-plane structural features of graphene on SiC revealed by TEM observations
- MoP8** F. Chiappini, S. Wiedmann, U. Zeitler, K. S. Novoselov, A. K.Geim, R. V. Gorbachev, J. C. Maan
Gap opening at the charge neutrality point of a graphene transistor on hBN
- MoP9** M. Schuett, P.M. Ostrovsky, I.V. Gornyi, M. Titov, B.N. Narozhny, and A.D. Mirlin
Hall-drag and magneto-drag in graphene via kinetic equation approach
- MoP10** J. Kailasvuori, B. Sopik, and Maxim Trushin
Conductivity of chiral particles: Boltzmann-like analytical approach and finite-size Kubo formula simulation
- MoP11** E. Wolf and D. Lehmann
Influence of chirality on phonon-drag thermopower in monolayer and bilayer graphene
- MoP12** S. Masubuchi, K. Iguchi, S. Morikawa, M. Onuki, K. Watanabe, T. Taniguchi, T. Machida
Boundary Scattering in Ballistic Graphene

- MoP13** M.M. Asmar and S.E. Ulloa
Spin dependent scattering in graphene systems: from impurity characterization to birefringent electron optics
- MoP14** J. M. Poumirol, K. Myhro, Y. Kim, J. Ludwig, K. Myhro, J. Lau, and D. Smirnov
Gate dependent magnetophonon resonance in graphene
- MoP15** S. Russo, I. Khrapach, F. Withers, T.H. Bointon, D.K. Polyushkin, W.L. Barnes, M.F. Craciun
Novel highly conductive graphene-based materials
- MoP16** N. Ubrig, P. Blake, D. van der Marel, and A. B. Kuzmenko
Infrared spectroscopy of hole doped ABA-stacked trilayer graphene
- MoP17** I. Petkovic, F. I. B. Williams, K. Bennaceur, F. Portier, P. Roche, and D. C. Glattli
Carrier drift velocity and edge magnetoplasmons in graphene
- MoP18** P.A. Orellana, L.Rosales, L. Chico, and M. Pacheco
Spin-polarized electrons in bilayer graphene flakes
- MoP19** F. İyikanat, R. T. Senger
Electronic and magnetic properties of zigzag edged triangular graphene flakes
- MoP20** H. Tomori, Y. Ootuka and A. Kanda
Electron transport in graphene with one dimensional local strain
- MoP21** A. Gómez-León and G. Platero
Floquet-Bloch theory and topology in periodically driven lattices
- MoP22** Y. Inoue, T. Yamaguchi, S. Masubuchi, S. Morikawa, M. Onuki, K. Watanabe, T. Taniguchi, R. Moriya, and T. Machida
Electrical spin injection into graphene using h-BN tunnel barrier
- MoP23** D. Prezzi, A. Ferretti, S. Wang, A. Ruini, E. Molinari, P. Ruffieux, J. Cai, N.C. Plumb, L. Patthey, X. Feng, K. Müllen, C. A. Pignedoli, and R. Fasel
Electron and optical spectroscopies of graphene nanoribbons: insights from ab-initio calculations
- MoP24** A. S. Plaut, U. Wurstbauer, A. Pinczuk, J. M. Garcia, and L. N. Pfeiffer
Counting molecular-beam grown graphene layers
- MoP25** M. R. S. Tavares and C. E.P. Villegas
Plasmons and single-particle excitations in single and double coupled graphene stripes
- MoP26** N. Myoung, K. Seo, S. J. Lee, and G. Ihm
High-performance graphene field-effect transistor and graphene spin-filter with atomically thin MoS₂ tunnel barrier

- MoP27** N. Ubrig, S. Jo, A. Ubaldini, A. B. Kuzmenko, and A. F. Morpurgo
Photoluminescence and photocurrent of thin semiconducting transition metal dichalcogenides
- MoP28** M. Ghorbani-Asl, P. Miró, A. Kuc, and T. Heine
Effect of mechanical deformations in electronic properties of transition metal dichalcogenides
- MoP29** A. Kuc, M. Ghorbani-Asl, and T. Heine
Tuning electronic properties of transition-metal dichalcogenides
- MoP30** D. Sercombe, S. Schwarz, O. Del Pozo-Zamudio, F. Liu, B. J. Robinson, E.A. Chekhovich, O. Kolosov, and A.I. Tartakovskii
Dielectric substrate and capping effects on optical properties of a few atomic monolayer MoS₂ sheets
- MoP31** G.W. Mudd, S.A. Svatek, O. Makarovskiy, L. Eaves, A. Patané, P.H. Beton, Z.D. Kovalyuk, G.V. Lashkarev, and A.I. Dmitriev
Tuneable photoluminescence emission from exfoliated InSe nanocrystals
- MoP32** S. Schwarz, O. Del Pozo-Zamudio, D. Sercombe, E.A. Chekhovich, D.N. Borisenko, N.N. Kolesnikov, and A.I. Tartakovskii
Photoluminescence spectroscopy of thin sheets of gallium selenide
- MoP33** J. R. Wallbank, M. Mucha-Kruczyński, and V. I. Fal'ko
Band gap opening in graphene on transition metal dichalcogenides and related substrates
- MoP34** L.M. Chepyga, L.M. Kulikov, and L.G. Akselrud
Novel experimental technique of synthesis two-dimensional nanoparticles of autointercalated niobium diselenide
- MoP35** K. Kośmider and J. Fernández-Rossier
Electronic properties of MoS₂-WS₂ heterojunction
- MoP36** Pilkyung Moon and Mikito Koshino
Energy spectrum, quantum Hall effect, and valley splitting in graphene on hexagonal boron nitride
- MoP37** F. Manni, Y. Léger, Yuri G. Rubo, R. André, and B. Deveaud
Hyperbolic spin vortices and textures in spinor polariton condensates
- MoP38** M. Yamaguchi, K. Kamide, R. Nii, T. Ogawa, and Y. Yamamoto
BEC-BCS-laser crossover theory of exciton-polariton systems
- MoP39** S. Smolka, W. Wuester, S. Faelt, F. Haupt, W. Wegscheider, A. Imamoglu
Light-matter interaction between a two-dimensional electron gas and a micro-cavity

- MoP40** M. Załuźny
Hybrid intersubband-intrasubband cavity polaritons
- MoP41** A.V.Chaplik
Local modes in structures with multicomponent plasma
- MoP42** M. Matuszewski and E. Witkowska
Universality in condensation of exciton-polaritons
- MoP43** B. Piętko, D. Zygmunt, J. Szczytko, J. Łusakowski, P. Zięba, I. Tralle, F. Morier-Genoud, and B. Deveaud
The effect of magnetic field on the emission from exciton polaritons in semiconductor microcavity
- MoP44** D. Ballarini, R. Hivet, E. Cancellieri, F. M. Marchetti, M. H. Szymanska, C. Ciuti, E. Giacobino, D. Sanvitto, and A. Bramati
Optical control of vortex-antivortex lattices of polariton quantum fluids
- MoP45** M. Pieczarka, P. Podemski, A. Musiał, K. Ryczko, A. Mika, M. Kozub, G. Sęk, J. Misiewicz, F. Langer, A. Forchel, S. Höfling, and M. Kamp
Towards exciton polaritons at telecommunication wavelengths in GaAs-based microcavities
- MoP46** T. Uyen-Khanh Dang and M. Richter
Theory of 2D photon echo spectroscopy on quantum well intersubband dynamics
- MoP47** A. Gonzalez-Tudela, P.A. Huidobro, L. Martín-Moreno, F.J. García-Vidal, and C. Tejedor
Quantum plasmonics: strong-coupling between quantum emitters and surface plasmon polaritons
- MoP48** M. Sich, F. Fras, A. Gorbach, R. Hartley, E. A. Cerda-Mendez, K. Biermann, R. Hey, P. Santos, M. S. Skolnick, D. V. Skryabin, and D. N. Krizhanovskii
Spin properties of bright polariton solitons in a semiconductor microcavity : The effect of polariton polarisation multistability
- MoP49** T. Kobayashi, T. Ota, S. Sasaki, and K. Muraki
Nonequilibrium quantum cellular automata effect in a three-terminal triple quantum dot
- MoP50** M. Busl, G. Granger, L. Gaudreau, R. Sánchez, A. Kam, M. Pioro-Ladrière, S. A. Studenikin, P. Zawadzki, Z. R. Wasilewski, A. S. Sachrajda, and G. Platero
Transport via coherent state superpositions in triple quantum dots
- MoP51** M. Kotzian, M.C. Rogge, K. Roszak, and R.J. Haug
Two-path transport measurements with bias dependence on a triple quantum dot
- MoP52** C. Kenfack Sadem, A.J.Fotué, L.C. Fai, M. Tchoffo, R. M. Keumo Tsiaze, J. E. Danga, J.T. Difo
Magnetical control of spin qubits in quantum wire

- MoP53** Yasuhiro Tokura and Toshihiro Kubo
Initialization of multiple quantum spins with non-equilibrium bias
- MoP54** P. Trocha and I. Weymann
The role of cotunneling processes in Andreev transport through quantum dot coupled to two ferromagnetic leads and one superconducting electrode
- MoP55** K. I. Wysokiński
Charge and spin Seebeck effects in hybrid quantum dot junctions
- MoP56** L. Fricke, M. Wulf, B. Kaestner, V. Kashcheyevs, J. Timoshenko, P. Nazarov, F. Hohls, P. Mirovsky, B. Mackrodt, R. Dolata, T. Weimann, K. Pierz, H.W. Schumacher
Counting statistics of single-electron capture by a dynamic quantum dot
- MoP57** R.S. Deacon, J. Sailer, A. Oiwa, T. Fuse, M.T. Deng, H. Q. Xu, S. Tarucha, and K. Ishibashi
Supercurrents in niobium-InSb nanowire Josephson junctions
- MoP58** T. Ota, K. Hitachi, and K. Muraki
Signature of Landau-Zener-Stückelberg interference in coherent charge oscillations of a one-electron double quantum dot
- MoP59** F. R. Braakman, P. Barthelemy, C. Reichl, W. Wegscheider, L. M.K. Vandersypen
Coherent electron transfer between distant quantum dots in a linear array
- MoP60** F. Haupt, S. Smolka, M. Hanl, W. Wüster, J. Miguel-Sanchez, J.v. Delft, A. Imamoglu
Fano-interference in an optical transition from a neutral quantum dot to a correlated many-body state
- MoP61** Ł. Karwacki, P. Trocha, and J. Barnaś
Enhancement of thermoelectric efficiency in a quantum dot coupled to ferromagnetic electrodes due to Rashba spin-orbit coupling
- MoP62** S. Kuhn, A. Knorr, and M. Richter
Determination of quantum dot parameters using quantum dot continuum transitions
- MoP63** A. Sitek, A. Manolescu, and P. Machnikowski
Collective optical effects in multiple quantum dots
- MoP64** M. Molas, A. A. L. Nicolet, A. Babiński, and M. Potemski
Fine structures of triexcitons in single GaAlAs/AlAs quantum dots
- MoP65** A. M. Alexeev, I. A. Shelykh, and M. E. Portnoi
Aharonov-Bohm quantum rings in microcavities
- MoP66** N.A. Jahan, C. Hermannstädter, K. Akahane, M. Sasaki, H. Kumano, I. Suemune
Temperature dependence of single quantum dot luminescence: influence of inter-dot coupling

- MoP67** D.R. Stephan, J. Bhattacharyya, M. Helm, Y. Huo, A. Rastelli, O. Schmidt, H. Schneider
Inter-sublevel transitions in single InAs/GaAs quantum dots
- MoP68** X. Liu, T. Asano, S. Odashima, H. Nakajima, H. Kumano, and I. Suemune
Photon extraction enhancement and suppression of multi-photon emission from an InAs quantum dot in a metal-embedded nanocone structure
- MoP69** T. Obata, M. Yamamoto, and S. Tarucha
Floating gate in a 2DEG island for electrostatically connecting distant quantum dots
- MoP70** D. Sonnenberg, A. Graf, A. Küster, Ch. Heyn, and W. Hansen
Ultra-low density GaAs quantum dots by nanohole filling
- MoP71** A. Küster, D. Sonnenberg, A. Graf, Ch. Heyn and W. Hansen
Coupling and wavelength tuning of GaAs quantum dots
- MoP72** E. Zielony, E. Płaczek-Popko, P. Nowakowski, Z. Gumieny, A. Suchocki, G. Karczewski
Electro-optical characterization of Ti/Au-ZnTe Schottky diodes with CdTe quantum dots
- MoP73** E. Zielony, E. Płaczek-Popko, A. Henrykowski, Z. Gumieny, P. Kamyczek, J. Jacak, P. Nowakowski, and G. Karczewski
Laser irradiation effects on the CdTe/ZnTe quantum dot structure studied by Raman and AFM spectroscopy
- MoP74** M. Hayne, S. Harrison, M. Young, P. D. Hodgson, R. J. Young, A. Strittmatter, A. Lenz, U. W. Pohl, and D. Bimberg
Carrier confinement in stacks of InAs/GaAs sub-monolayer quantum dots: quantum dots or quantum wells?
- MoP75** M. J. Korkusinski, A. H. Trojnar, U. Mendes, M. Goryca, M. Koperski, T. Smolenski, P. Kossacki, P. Wojnar, and P. Hawrylak
Fine structure of a biexciton in a quantum dot with magnetic impurity: Magnetic sensing of a spinless system
- MoP76** D. E. Reiter, V. M. Axt, and T. Kuhn
Optical spin control of a single Mn atom in a single quantum dot via the light hole exciton
- MoP77** J. I. Climente, C. Segarra, and J. Planelles
Electron spin relaxation in quantum dots: effect of the 3D shape
- MoP78** K. Ryczko, M. Kubisa and J. Misiewicz
Effect of strain on the spin splitting of holes in GaAs/GaAlAs quantum wells
- MoP79** F. Nagasawa, M. Kohda, and J. Nitta
Spin-induced time reversal symmetry breaking in an InGaAs mesoscopic ring with Rashba spin-orbit interaction

- MoP80** M.L. Kerfoot, A. Govorov, D. Lu, R. Babaoye, A.S. Bracker, D. Gammon, M. Scheibner
Phonon-induced transparency in quantum dot molecules
- MoP81** L. Fernandes dos Santos, Y. A. Pusep, L. Villegas-Lelovsky, V. Lopez-Richard, G. E. Marques, G. M. Gusev, and D. Smirnov
Circularly polarized photoluminescence as a probe of spin polarization and interaction in GaAs/AlGaAs quantum hall bilayers
- MoP82** A. Matulis
Broken translation symmetry and edge states
- MoP83** I. Sodemann and A. H. MacDonald
Spin-orbit coupling as an intrinsic pinning mechanism for stripe orientation in high Landau levels
- MoP84** S. Tsuda, A. Fukuda, M. H. Nguyen, D. Terasawa, and A. Sawada
Insulating phase in the dynamically nuclear spin polarized $\nu=2/3$ quantum Hall state
- MoP85** M. Hashisaka, T. Ota, K. Muraki, and T. Fujisawa
Shot noise of quasiparticles at local fractional quantum Hall states measured by a cross correlation technique
- MoP86** D. A. Kozlov, Z. D. Kvon, D. Weiss, N.N. Mikhailov, and S.A. Dvoretzky
Giant Zeeman-splitting induced Spin Hall Effect in Dirac Fermions system in HgTe quantum wells
- MoP87** A. M. Alexeev and M. E. Portnoi
Two-phonon scattering in graphene in the quantum Hall regime
- MoP88** S. Baer, C. Rössler, T. Ihn, K. Ensslin, C. Reichl, and W. Wegscheider
Quantum point contacts in the fractional quantum Hall regime
- MoP89** Tobias Kramer
Self-consistent transport and boundary conditions in finite quantum Hall devices
- MoP90** M. Cygorek, C. Thurn, and V.M. Axt
Non-Markovian spin transfer dynamics in optically excited diluted magnetic semiconductor quantum wells
- MoP91** C. Hübner, B. Baxevanis, and D. Pfannkuche
Dynamical spin reversion with spin polarized current
- MoP92** C. Śliwa, M. Birowska, J. A. Majewski, and T. Dietl
Anisotropy of the RRKY interaction in ferromagnetic (Ga,Mn)As
- MoP93** K. Filar, K. Rogacki, P. Przyslupski, and V. I. Nizhankovskii
Chemical potential investigations of the surface of ferromagnetic-superconducting multilayers

- MoP94** K. Gas, J. Sadowski, T. Kasama, A. Siusys, W. Zaleszczyk, T. Wojciechowski, J. F. Morhange, A. Altintaş, H. Q. Xu, and W. Szuszkiewicz
Selected physical properties of auto-catalytic GaAs:Mn nanowires grown by molecular beam epitaxy on silicon substrates
- MoP95** J.C.B. Pomayna, F.G.G. Hernandez, G.M. Gusev, N.C. Mamani, Y.A. Pusep, A. K. Bakarov
Magneto-intersubband oscillations of a wide quantum well in an electrically tuned triangular antidot lattice
- MoP96** T. Ishikura, Z. Cui, K. Konishi, J. Lee, and K. Yoh
Spin accumulation at the Fe/Si interface and two types of Hanle characteristics
- MoP97** A. A. Sherstobitov, G. M. Minkov, A. V. Germanenko, O. E. Rut, N. N. Mikhailov, and S. A. Dvoretzki
Electron tunneling spectroscopy of 2D HgTe quantum well with inverted energy spectrum
- MoP98** C.-W. Huang, E. Shimshoni, D. Gutman, S. T. Carr, and A. Mirlin
Transport via single and double quantum point contacts in 2D topological insulators
- MoP99** D. A. Kozlov, Z. D. Kvon, D. Weiss, N. N. Mikhailov, and S. A. Dvoretzkiy
Transport properties of a 3D topological insulator on the basis of a strained high mobility HgTe film
- MoP100** B.M. Wojek, R. Buczko, S. Safaei, P. Dziawa, B.J. Kowalski, M.H. Berntsen, T. Balasubramanian, M. Leandersson, A. Szczerbakow, P. Kacman, T. Story, O. Tjernberg
Spin polarization of surface states on (100) $Pb_{0.73}Sn_{0.27}Se$
- MoP101** A. Rahim, A. D. Levin, G.M. Gusev, Z. D. Kvon, E.B. Olshanetsky, N.N. Mikhailov, S.A. Dvoretzkiy
Nonlocal transport near charge neutrality point in two-dimensional topological insulator
- MoP102** G. Tkachov, E. M. Hankiewicz, H. Buhmann, and L. W. Molenkamp
Berry-phase-controlled weak antilocalization and Josephson effects in HgTe topological insulator materials
- MoP103** G. Grabecki, J. Wróbel, M. Czapkiewicz, L. Cywiński, S. Gieraltowska, E. Guziewicz, M. Zhuludev, V. Gavrilenko, N.N. Mikhailov, S.A. Dvoretzki, W. Knap, F. Teppe, T. Dietl
Topological protection length in HgTe/(Hg,Cd)Te quantum wells
- MoP104** Y.B. Vasilyev, J. Ludwig, J.-M. Poumirol, N.N. Mikhailov, G.Y. Vasileva, D. Smirnov
Level Spectroscopy of Dirac fermions in HgTe quantum wells
- MoP105** H.V.A. Galeti, Y. Galvão Gobato, M. J. S. P. Brasil, M. Henini, and G. Hill
Light controlled spin polarization in two dimensional hole gases

- MoP106** A.A. Kozikov, D. Weinmann, C. Rössler, T. Ihn, K. Ensslin, C. Reichl, W. Wegscheider
Imaging magnetoelectric subband depopulation in ballistic constrictions
- MoP107** S. I. Erlingsson and G. Thorgilsson
Effects of spin-orbit coupling on transport through a QPC modulated by a periodic potential
- MoP108** A. Iagallo, N. Paradiso, S. Roddaro, C. Reichl, W. Wegscheider, S. Heun, F. Beltram
Scanning Gate Imaging of the 0.7 anomaly
- MoP109** P. H. Wu, Y. S. Huang, H. P. Hsu, C. Li, and S. H. Huang
Optical characterization of strain-compensated $\text{Ge}/\text{Si}_{0.16}\text{Ge}_{0.84}$ multiple quantum wells on silicon-based germanium virtual substrate
- MoP110** R. Gammag and C. Villagonzalo
Signatures of Landau level crossings in a two-dimensional electron gas
- MoP111** Avik Kumar Mahata
Formulating transmission probabilities of arbitrary potential in a 2-dimensional quantum chaotic systems
- MoP112** B.A. Danilchenko, N.A.Tripachko, A.E. Belyaev, S.A. Vitusevich, H. Hardtdegen, H. Lüth
Quasi-ballistic transport in AlGaIn/GaN heterostructures in extremely high electric fields
- MoP113** L. Bockhorn, I.V. Gornyi, A.D. Mirlin, C. Reichl, D. Schuh, W. Wegscheider, R.J. Haug
Negative magnetoresistance induced by an interplay of smooth disorder and rare strong scatterers
- MoP114** A. F. Adiyatullin, V. S. Bagaev, V. S. Krivobok, S. N. Nikolaev, E.E. Onishchenko
Influence of doping on “exciton gas – electron-hole liquid” phase transition in SiGe quantum wells
- MoP115** B. Voisin, B. Roche, E. Dupont-Ferrier, X. Jehl, R. Wacquez, M. Vinet, S. De Franceschi, and M. Sanquer
Charge coherence and Fermi-edge singularity in dopant-based devices in silicon
- MoP116** M. Tallarida, C. Das and D. Schmeisser
Electronic properties of TiO_2 films grown by atomic layer deposition
- MoP117** P. J. J. Luukko, E. Räsänen
Imaginary time propagation code for large-scale two-dimensional eigenvalue problems in magnetic fields
- MoP118** A.T. Hatke, B. Magill, Y. Liu, L.W. Engel, M. Shayegan, L.N. Pfeiffer, K.W. West K.W. Baldwin
Phase transition of pinning modes in wide quantum wells

- MoP119** O. Chiatti, S. S. Buchholz, C. Heyn, W. Hansen, and S. F. Fischer
Magnetotransport in nanostructured InAs-based High Electron Mobility Transistors
- MoP120** A. B. Tchapda, C. Kenfack Sadem, M.B. Kenmoe, J. Dikko, A. Fotué, and L.C. Fai
Landau-Zener theory: slow and fast noise in nanoscale systems
- MoP121** V. T. Renard, B. A. Piot, Y. Niida, D. Tregurtha, A. Fujiwara, Y. Hirayama, X. Waintal, G. Fleury and K. Takashina
Effects of valley polarization on spin polarization in a silicon 2DEG
- MoP122** D. Zhang, X. Huang, W. Dietsche, K. von Klitzing, and J. H. Smet
Evidence for two-dimensional Wigner crystal formation in chemical potential measurements
- MoP123** V.K. Guduru, A. McCollam, A. Granados del Aguila, S. Wenderich, A. Jost, M.K. Kruize, P.C.M. Christianen, G. Rijnders, A. Brinkman, H. Hilgenkamp, J.C. Maan, U. Zeitler
Thermally and optically excited multi-channel transport at the interface of $\text{LaAlO}_3/\text{SrTiO}_3$ heterostructures
- MoP124** T. Osada, M. Sato, K. Uchida, and T. Konoike
Surface magnetotransport due to helical edge state in the organic dirac fermion system at the quantum limit
- MoP125** C. Franke, H. Schneider, and M. Walther
Two-photon quantum well infrared photodetectors in the THz-regime
- MoP126** D. Kamburov, M. a. Mueed, M. Shayegan, L. N. Pfeiffer, K. W. West, K. W. Baldwin, and R. Winkler
Tuning Fermi contour anisotropy of GaAs of quasi-2D electron and hole systems in parallel magnetic fields
- MoP127** M. Kołodziej and G. Harań
Spin-orbit coupling effect on a particle density correlation in a two-dimensional electron gas
- MoP128** E. Nascimento Lima and T. M. Schmidt
Spin texture of bismuth bilayers: an ab initio calculation
- MoP129** M. Städter, M. Tallarida, and D. Schmeißer
Fano profiles at the onset of the x-ray absorption spectra of SiO_2
- MoP130** M. V. Entin and L. I. Magarill
In-plane stationary current in double-well structure

- MoP131** A. N. Ramanayaka, T. Ye, H-C. Liu, R. G. Mani, and W. Wegscheider
Linear polarization rotation study of the microwave radiation-induced magnetoresistance oscillations in the GaAs/AlGaAs system
- MoP132** K. Koike, Y. Kato, A. Endo, S. Katsumoto, and Y. Iye
Commensurability oscillations in the thermoelectric power of unidirectional lateral superlattices
- MoP133** R. Moriya, Y. Hoshi, Y. Inoue, S. Masubuchi, K. Sawano, Y. Shiraki, N. Usami, T. Machida
Landau level crossing and anti-crossing of bilayer two-dimensional hole gas in Ge/SiGe quantum well
- MoP134** S. A. Mikhailov
Quantum theory of the second-order electromagnetic response of a low-dimensional electron gas
- MoP135** Z. S. Momtaz, G. M. Gusev, A. D. Levin, and A. K. Bakarov
Nonlinear transport and inverted magneto-intersubband oscillations in a triple quantum wells
- MoP136** C. A. Downing, R. R. Hartmann, I. A. Shelykh, and M. E. Portnoi
Terahertz transitions and excitons in narrow-gap carbon nanotubes
- MoP137** S. Sharmin, K. Muraki, and T. Fujisawa
Sharp current suppression at the triplet resonant tunneling in a two-electron double quantum dot
- MoP138** N. Bagraev, E. Danilovsky, D. Gets, E. Kalabukhova, L. Klyachkin, A. Malyarenko, D. Savchenko, and B. Shanina
 $N-V_{Si}$ -related center in non-irradiated 6H SiC nanostructure
- MoP139** V. V. Korotyeyev, V. A. Kochelap, and L. Varani
Ballistic electron transport in cascade of $n^+ - i - n^+$ homo- and heterodiodes.
- MoP140** S. Birindelli, M. Felici, R. Trotta, A. Notargiacomo, A. Gerardino, S. Rubini, F. Martelli, M. Capizzi, and A. Polimeni
Light polarization control by H-assisted strain modulation in GaAsN/GaAs heterostructures
- MoP141** R. Bhattacharya, R. Mondal, P. Khatua, A. Rudra, S. Malzer, G. Döhler, B. Pal, B. Bansal
Fundamental limits to the Urbach tail in GaAs quantum wells
- MoP142** J. Huang, W. Ma, Y. Wei, Y. Zhang, K. Cui, Y. Cao, X. Guo, and Jun Shao
How to use type II InAs/GaSb superlattice structure to reach detection wavelength of 2-3 μm ?

- MoP143** S. Prucnal, S. Q. Zhou, F. L. Bregolin, X. Ou, M. O. Liedke, R. Huebner, M. Helm, J. Zuk, M. Turek, K. Pysznia, A. Drozdziel, and W. Skorupa
Millisecond-range liquid phase recrystallization for III-V/Si heteronanojunction fabrication
- MoP144** N. Bagraev, L. Klyachkin, R. Kuzmin, A. Malyarenko, V. Mashkov
The electroluminescence from p^+ -nanostructured Si - n-Si (100) heterojunctions
- MoP145** V. T. Renard, I. Duchemin, Y. Niida, A. Fujiwara, Y. Hirayama, and K. Takashina
Influence of intervalley scattering on the metallic behavior in Si MOSFETs
- MoP146** Yuriy Y. Gordiyenko, Dmytro A. Polietaiiev and Bohdan V. Sokolenko
Radiation losses in resonator measurement converters for scanning microwave microscopy
- MoP147** G. Pettinari, N. Balakrishnan, O. Makarovskiy, R. P. Campion, A. Polimeni, M. Capizzi, and A. Patanè
A movable light emitting area in resonant tunneling diodes
- MoP148** L. Schrottke, M. Wienold, R. Sharma, X. Lü, K. Biermann, A. Tahraoui, H. Richter, H.-W. Hübers, and H. T. Grahn
A customized THz quantum-cascade laser as the local oscillator for a heterodyne receiver at 4.745 THz
- MoP149** P. Strak, P. Kempisty, and S. Krukowski
DFT simulation of the physical properties of AlN/GaN multiquantum well (MQWs) system
- MoP150** P. Strak, P. Kempisty, and S. Krukowski
Ab initio DFT simulation of the physical properties of InN/GaN multiquantum wells
- MoP151** N. Rawat, Z. Pan, L. Manning, R. Waterman, S. McGil, and M. Furis
MCD of crystalline thin film organic semiconductors
- MoP152** O. Yastrubchak, J. Sadowski, J. Z. Domagala, Ł. Gluba, J. Żuk, and T. Wosiński
Virtual crystal approximation versus valence band anticrossing model of the band structure in the (Ga,Mn)As and (Ga,Bi)As epitaxial layers
- MoP153** O. Del Pozo-Zamudio, I. J. Luxmoore, R. Toro, N. A. Wasley, E. A. Chekhovich, A. M. Sanchez, R. Beanland, A.M. Fox, M.S. Skolnick, H. Y. Liu, and A. I. Tartakovskii
III-V quantum light source and cavity-QED on Silicon
- MoP154** T. Ye, R. G. Mani, and W. Wegscheider
Nonlinear growth in the microwave reflection signal from the GaAs/AlGaAs 2DES in the regime of radiation-induced magnetoresistance oscillations

Tuesday, 2 July

17.00 – 19.00

- TuP1** M. Gryglas-Borysiewicz, A. Kwiatkowski, J. Przybytek, S. Butun, E. Ozbay, W. Strupieński, R. Stępniewski, and M. Baj
Weak localization in epitaxial graphene layers grown on (0001) SiC
- TuP2** E. Räsänen, C. A. Rozzi, S. Pittalis, and G. Vignale
Artificial graphene as a designer Dirac material
- TuP3** D. M. M. Gustin, M. R.S. Tavares, G.-Q. Hai, and P. Vasilopoulos
Transmission through silicene quantum barriers
- TuP4** A. Kanda, Y. Nukui, H. Goto, H. Tomori, and Y. Ootuka
Determination of mobility in top and bottom surfaces of multilayer graphene placed on SiO₂/Si substrate
- TuP5** Oskar Vafek
Electronic multi-criticality in bilayer and trilayer graphene
- TuP6** W. Norimatsu, K. Hirata, and M. Kusunoki
Growth of boron-doped graphene by thermal decomposition of B4C
- TuP7** K. Takase, H. Hibino, and K. Muraki
Splitting of the zero-energy Landau level in epitaxial graphene on SiC
- TuP8** T. Morimoto and M Koshino
Emergent Dirac cones and valley Hall states in gated multilayer graphenes
- TuP9** T. Honda, Y. Hatsugai, H. Aoki, and T. Kawarabayashi
Landau levels of disordered massless Dirac fermions when the Dirac cones are both shifted and tilted
- TuP10** C. Tonnoir, C. Chapelier, A. Kimouche, J. Coraux, B. Delsol, and B. Gilles
A new path for superconducting graphene
- TuP11** D. Terasawa, A. Fukuda, Y. Ohno, and K. Matsumoto
Transition from weak localization to strong localization regime in the bilayer graphene
- TuP12** P. Moon and M. Koshino
Optical absorption in twisted bilayer graphene
- TuP13** A. Iagallo, S. Tanabe, S. Roddaro, M. Takamura, H. Hibino, S. Heun, and F. Beltram
Tuning of quantum interference in top-gated graphene
- TuP14** J. Wakabayashi, S. Shiraishi, and W. Wang
Magnetoresistance of high mobility graphene in parallel magnetic fields

- TuP15** S. Masubuchi, M. Onuki, M. Arai, K. Watanabe, T. Taniguchi, and T. Machida
Infrared photoresponse of high-mobility graphene in the quantum Hall regime
- TuP16** C. Zoth, P. Olbrich, P. Vierling, K. M. Dantscher, G. V. Budkin, S. A. Tarasenko, V. V. Bel'kov, D.A. Kozlov, Z.D. Kvon, N.N. Mikhailov, S. A. Dvoretzky, and S.D. Ganichev
Spin-polarized currents of Dirac fermions at cyclotron resonance
- TuP17** M. Koshino and Y. Ominato
Magnetic field response of graphene nanostructures
- TuP18** B. Birkner, D. Pachniowski, A. Sandner, M. Ostler, T. Seyller, J. Fabian, M. Ciorga, D. Weiss, and J. Eroms
Annealing-induced magnetic moments in epitaxial graphene detected by spin precession measurements
- TuP19** J. M. Baranowski, W. Strupinski, M. Mozdzonek, K. Grodecki, and P. Osewski
Electron – phonon couplings and Fano resonances in epitaxial graphene bilayer
- TuP20** W. E. Liu, A. H. MacDonald, and D. Culcer
Electron-electron interactions in non-equilibrium bilayer graphene
- TuP21** A. Dyrdał and J. Barnaś
Spin Hall effect in graphene with fluctuating Rashba field
- TuP22** D. Smirnov, H. Schmidt, and R. J. Haug
Temperature dependence and bipolar interference in graphene monolayer quantum rings
- TuP23** P. Dabrowski, W. Kozlowski, I. Wlasny, J. Slawinska, Z. Klusek, M. Kopciuszynski, R. Zdyb, M. Jalochoowski, J.M. Baranowski, and W. Strupinski
The electronic structure of graphene induced by substrate interaction
- TuP24** P. Simonet, C. Rössler, T. Krähenmann, C. Reichl, W. Wegscheider, K. Ensslin, T. Ihn
Graphene on GaAs
- TuP25** J. I. Jan Wang, Y.-A. Chen, K. Watanabe³, T. Taniguchi, and P. Jarillo-Herrero
Superconducting graphene nanodevices in the ballistic transport regime
- TuP26** P. S. Alekseev, A. P. Dmitriev, I. V. Gornyi, and V. Yu. Kachorovskii
Magnetoresistance of disordered graphene at high temperatures
- TuP27** N. Sule, K. J. Willis, S. C. Hagness, and I. Knezevic
Effects of charged impurity clusters on the conductivity of supported graphene
- TuP28** A. Gómez-Leon, P. Delplace, and G. Platero
Manipulating Dirac cones in graphene by periodic ac fields

- TuP29** S. Morikawa, S. Masubuchi, M. Onuki, K. Watanabe, T. Taniguchi, and T. Machida
Ballistic transport in graphene p-n junctions
- TuP30** V. Mazo, C.-W. Huang, H. A. Fertig, S. Carr, and E. Shimshoni
Superfluid-insulator transitions of collective helical modes in the zero quantum Hall state of bilayer graphene
- TuP31** M. Arai, S. Masubuchi, K. Watanabe, T. Taniguchi, and T. Machida
Strong suppression of conductance in dual-gated h-BN/bilayer graphene/h-BN device
- TuP32** S. A. Mikhailov
Spontaneous electric polarization of the graphene lattice
- TuP33** M. Yamagishi, N. Watase, M. Hashisaka, K. Muraki, and T. Fujisawa
Single electron counting of spin-polarized current through a quantum dot
- TuP34** E. Zipper, M. Kurpas, and M. M. Maška
Wave function engineering in quantum dot-ring nanostructures
- TuP35** M. A. Rodriguez-Moreno, L. Meza-Montes, and A. D. Hernandez
Electrical control of single-electron spin using spin-orbit effects in quantum dots
- TuP36** J. Kwoen, K. Watanabe, Y. Ota, S. Iwamoto, and Y. Arakawa
Single photon emission from an InAs quantum dot in a GaAs nanowire grown on Si substrate
- TuP37** K. Shibata, H. T. Yuan, Y. Iwasa, and K. Hirakawa
Large modulation of electronic states in InAs quantum dots by electric-double-layer gating
- TuP38** S. Lüker, K. Gawarecki, M. Glässl, D. E. Reiter, A. Grodecka-Grad, V.M. Axt, P. Machnikowski, and T. Kuhn
Optically induced exciton generation in quantum dots via adiabatic rapid passage: influence of phonons and detuning
- TuP39** R. Mondal, B. Bansal, A. Mandal, S. Chakrabarti, and Bipul Pal
Pauli blocking dynamics in optically excited quantum dots: A picosecond excitation-correlation spectroscopic study
- TuP40** M. De Luca, S. Birindelli, A. Zilli, A. Polimeni, M. Capizzi, F. Mura, H. A. Fonseca, H. H. Tan, and C. Jagadish
Resonant excitonic effects in the density of states of InP nanowires
- TuP41** C. Jarlov, L. Ferrier, M. Calic, P. Gallo, V. Belykh, A. Rudra, B. Dwir, N.N. Sibeldin, E. Kapon
Observation of Purcell effect with a site-controlled pyramidal quantum dot coupled to a photonic crystal cavity mode
- TuP42** E. Sheremet, R.D. Rodriguez, D. Dmitriev, A. Toropov, A. Milekhin, and D.R.T. Zahn
Raman and AFM profiling of quantum dot multilayers

- TuP43** J. Pawłowski and S. Bednarek
Research on the new mechanism of a spatial separation of a spin density in a two-electron quantum dot
- TuP44** J. I. Climente, C. Segarra, and J. Planelles
Hole spin relaxation in InAs and GaAs quantum dots: the role of Dresselhaus spin-orbit interaction
- TuP45** T. Smoleński, T. Kazimierczuk, M. Goryca, T. Jakubczyk, L. Kłopotowski, L. Cywiński, P. Wojnar, A. Golnik, and P. Kossacki
In-plane radiative recombination channel of a dark exciton in self-assembled quantum dots
- TuP46** P. Kaczmarkiewicz, P. Machnikowski, and T. Kuhn
Carrier trapping and phonon-assisted relaxation in non-uniform quantum dashes
- TuP47** D. Braam, A. Mölleken, G. M. Prinz, M. Geller and A. Lorke
Spectral jitter of single CdSe/ZnS nanoparticles: Where is the charge?
- TuP48** L. Langer, S. V. Poltavtsev, I. A. Yugova, D. R. Yakovlev, G. Karczewski, T. Wojtowicz, J. Kossut, I. A. Akimov, and M. Bayer
Magnetic-field control of photon echo from the electron-trion system
- TuP49** H. Sasakura, X. Liu, S. Odashima, H. Kumano, I. Suemune, and S. Muto
Fiber-based bidirectional photon detection from a single quantum dot
- TuP50** S. A. Khattak, M. Hayne, L. Seravalli, G. Trevisi, and P. Frigeri
Confinement of Excitons in Strain-engineered InAs/InGaAs/GaAs Metamorphic Quantum Dots
- TuP51** Tomasz Kwapiński
Electronic properties of a quantum wire with magnetic impurities
- TuP52** S. Kumar, K. Thomas, L. Smith, M. Pepper, I. Farrer, D. Ritchie, G. Jones, J. Griffiths
Conductance instabilities in a quasi-1D quantum wire
- TuP53** G.-H. Kim, Y. Kwak, J.-W. Byon, J. M. Baik, K. S. Yi
Transport properties of Au nanoparticle-VO₂ nanowire assembly
- TuP54** E. Montes, K. Gkionis, I. Rungger, S. Sanvito, and U. Schwingenschlögl
Relation between structural properties and electron transport in Si nanowires
- TuP55** F. E. G. Guimarães, R. A. Caface, H. Arakaki, C. A. de Souza, and Y. A. Pusep
Crystal structure and optical characterization of radial heterostructured GaAs/AlGaAs/GaAs nanowires

- TuP56** P. Kamyczek, Z.R. Zytewicz, E. Placzek-Popko, E. Zielony, M. Sobanska, A. Reszka, K. Klosek
The growth and micro-Raman characterization of GaN nanorods
- TuP57** M. Galicka, R. Buczek, and P. Kacman
First-principles study of doped GaAs nanowires
- TuP58** Y.-H. Choi, J. Na, J.-S. Kim, J. M. Shin, and G. T. Kim
Electrical characteristics of N_2 plasma treatments on SnO_2 nanowires FET
- TuP59** M. Akabori, T. Murakami, and S. Yamada
In-plane oriented InAs nanowire formation by selective area molecular beam epitaxy on GaAs (211)B substrates
- TuP60** C. Rolland, P. Caroff, X. Wallart, and R. Leturcq
Interesting spatial inhomogeneities in n- and p-doped InAs nanowires grown by gold-seeded molecular beam epitaxy
- TuP61** A. Nikolaeva, L. Konopko, A. Tsurkan, and E. Istrate
Anisotropy and thermoelectric properties pure and Sn- doped Bi nanowires
- TuP62** N. Pascher, C. Rössler, T. Ihn, K. Ensslin, C. Reichl, and W. Wegscheider
Imaging integer and fractional quantum Hall edge states
- TuP63** Y. Liu, S. Hasdemir, A.L. Graninger, M. Shayegan, L.N. Pfeiffer, K.W. West, K. W. Baldwin, and R. Winkler
Even-denominator $\nu = \frac{1}{2}$ fractional quantum Hall effect in GaAs 2D hole systems
- TuP64** S. Tsuda, D. Terasawa, S. Mitani, Minh Hai N., A. Fukuda, and A. Sawada
Anomalous electric transport induced by dynamic nuclear polarization in the vicinity of $\nu=2/3$ quantum Hall state
- TuP65** T. Otsuka, Y. Sugihara, J. Yoneda, T. Nakajima, and S. Tarucha
Probing energy relaxation in quantum Hall edge states utilizing quantum point contacts
- TuP66** A. A. Greshnov and Y. M. Beltukov
Theory of the integer quantum Hall transition broadening due to the electron-phonon interaction
- TuP67** C. Betthausen, C. Preis, P. Giudici, V. Kolkovsky, M. Wiater, G. Karczewski, B. Piot, J. Kunc, M. Potemski, T. Wojtowicz, and D. Weiss
Fractional Quantum Hall Effect in a Diluted Magnetic Semiconductor
- TuP68** K. Hashimoto, T. Tomimatsu, K. Sato, and Y. Hirayama
Local detection of nuclear spin resonance in a quantum-Hall-related system
- TuP69** Saadi Lamari
Theory of spin orbit effects in two-dimensional electron gases

- TuP70** V. A. Slipko and Y. V. Pershin
Spin relaxation in 2D systems with boundaries
- TuP71** T. Andrearczyk, H. Terletska, T. Wojtowicz, G. Karczewski, T. Dietl, V. Dobrosavljević, D. Popović, and J. Jaroszynski
Intrinsic phase separation in magnetically doped 2DES
- TuP72** J. Shiogai, M. Ciorga, M. Kohda, M. Utz, D. Schuh, D. Bougeard, T. Nojima, J. Nitta, D. Weiss
Comparison of non-local and three-terminal detection of spin accumulation in (Ga,Mn)As/GaAs spin Esaki diode devices
- TuP73** M. Ciorga, M. Utz, D. Schuh, D. Bougeard, and D. Weiss
Contact geometry dependent spin-valve signal from spin injection devices with (Ga,Mn)As/GaAs spin Esaki diode contacts
- TuP74** K. Korzekwa, M. Kugler, C. Gradl, S. Furthmeier, M. Griesbeck, M. Hirmer, D. Schuh, W. Wegscheider, C. Schüller, T. Korn, T. Kuhn, and P. Machnikowski
Spin dynamics in p-doped semiconductor nanostructures subject to a magnetic field tilted from the Voigt geometry
- TuP75** Saadi Lamari
Spin orbit effects in the 2DEG of semiconductor quantum wells
- TuP76** N. Kim, J. Kim, and H. Kim
Modulation of the spin conductance in a magnetic superlattice
- TuP77** S. Matsuo, T. Koyama, K. Chida, M. Nagata, D. Chiba, K. Kobayashi, T. Ono, K. Slevin, T. Ohtsuki, C.-z. Chang, K. He, X.-c. Ma, and Q.-k. Xue
Universal conductance fluctuation in quasi-1D wires of epitaxial Bi_2Se_3
- TuP78** K. Dybko, M. Szot, Z. Tkaczyk, A. Szczerbakow and T. Story
Electron transport signatures of bulk band inversion in $\text{Pb}_{1-x}\text{Sn}_x\text{Se}$ topological crystalline insulators
- TuP79** M. Orlita, D. M. Basko, M. Zholudev, F. Teppe, W. Knap, V. Gavrilenco, N. Mikhailov, S. Dvoretiskii, P. Neugebauer, C. Faugeras, A.-L. Barra, G. Martinez, M. Potemski
Observation of 3D massless fermions in a zinc-blende semiconductor at the point of a topological transition
- TuP80** A.V. Germanenko, G.M. Minkov, A.A. Sherstobitov, O.E. Rut, S.A. Dvoretzki, N.N. Mikhailov
Weak antilocalization in HgTe quantum wells with inverted and normal energy spectra
- TuP81** M.V. Yakunin, A.V. Suslov, S.M. Podgornyykh, A.P. Savel'yev, S.A. Dvoretzkiy, N.N. Mikhailov
Quantum magnetotransport in the HgTe double quantum well with inverted energy spectrum

- TuP82** D. A. Kozlov, Z. D. Kvon, N. N. Mikhailov, and S. A. Dvoretzkiy
Weak anti-localization in 2D Dirac fermions in CdHgTe/HgTe/CdHgTe quantum well
- TuP83** G.M. Minkov, A.V. Germanenko, A.A. Sherstobitov, O.E. Rut, S.A. Dvoretzki, N. N. Mikhailov
Two-dimensional semimetal in a wide HgTe quantum well: magnetotransport and energy spectrum
- TuP84** D. I. Golosov, I. Shlimak, A. Butenko, K.-J. Friedland, and S. V. Kravchenko
2DEG resistance asymmetry caused by an effective spin injection in a parallel magnetic field
- TuP85** I. Shlimak, A. Butenko, D. I. Golosov, K.-J. Friedland, and S. V. Kravchenko
Influence of spin polarisation on resistivity of a two-dimensional electron gas in Si MOSFET at metallic densities
- TuP86** A. Go
Modelling of bcc multicomponent low dimensional structures composed of transition metals and metalloids
- TuP87** O. V. Kibis
Light-induced dissipationless electron transport in quantum wells
- TuP88** Jesus Inarrea
Microwave polarization dependence of magnetoresistance oscillations of 2DES
- TuP89** D. Q. Wang, J. C. H. Chen, O. Klochan, K. Das Gupta, D. Reuter, A.D. Wieck, D. A. Ritchie, and A. R. Hamilton
Influence of surface states on quantum and transport lifetimes in high-quality undoped heterostructures
- TuP90** J. A. Miwa, P. Hofmann, M. Y. Simmons, and J. W. Wells
Direct band structure measurements of a buried δ -layer
- TuP91** Ivan A. Dmitriev
Theory of radiation-induced zero resistance states in 2D systems
- TuP92** I. Karakurt and A.J. Dahm
Effect of electron-electron interactions on the magnetoresistivity of a weakly-screened, low-density, two-dimensional electron liquid
- TuP93** M. Q. Weng and M. W. Wu
Microscopic theory for the Doppler velocimetry of spin propagation in semiconductor quantum wells

- TuP94** Z.D. Kvon, D.A. Kozlov, S.N. Danilov, C. Zoth, P. Vierling, S. Stachel, V.V. Bel'kov, S.D. Ganichev
Terahertz induced magnetoresistance oscillations of a high_density and high_mobility two_dimensional electron gas
- TuP95** N. T. Bagraev, E. Yu. Danilovskii, D.S. Gets, L. E. Klyachkin, A.M. Malyarenko
Conductance matrix in silicon nanosandwiches
- TuP96** N.T. Bagraev, E.Yu. Danilovsky, D.S. Gets, L.E. Klyachkin, A.A. Kudryavtsev, A. M. Malyarenko
Fractional quantum conductance in silicon nanosandwiches
- TuP97** S. Ichinokura, T. Hatano, K. Nagase, W. Izumida, and Y. Hirayama
Electrical control of coupling characteristics in vertically-stacked double-quantum-point-contact
- TuP98** T. Chwiej and B. Szafran
Fractional conductance oscillations in the charged two-terminal semiconductor quantum ring
- TuP99** A. Jost, V. K. Guduru, S. Wenderich, G. Koster, M. Huijben, M. K. Kruize, G. Rijnders, A. Brinkman, H. Hilgenkamp, A. McCollam, U. Zeitler, and J.C.Maan
Thermoelectric power of the $\text{LaAlO}_3/\text{SrTiO}_3$ heterostructure
- TuP100** L. W. van Heeringen, G. de Wijs, A. McCollam, J. C. Maan and A. Fasolino
k-p subband structure of the $\text{LaAlO}_3/\text{SrTiO}_3$ interface
- TuP101** L. H. Dmowski, M. Baj, L. Kończewicz, A. Kwiatkowski, J. Przybytek, T. Suski, X.Q. Wang
High mobility 2D electrons in undoped InN epitaxial layers grown on N-polarity GaN buffer
- TuP102** W. Y. Mak, F. Sfigakis, H. E. Beere, I. Farrer, K. Das Gupta, and D. A. Ritchie
Effects of bias cooling and illumination on undoped GaAs/AlGaAs heterostructures
- TuP103** M. Kubisa, K. Ryczko, I. Bisotto, C. Chaubet, A. Raymond, and W. Zawadzki
Two-electron states localized by charged acceptors in GaAs/GaAlAs quantum wells in ultra-quantum regime of magnetic fields
- TuP104** H. Tamura, T. Kobayashi, and T. Akazaki
Phase evolution in the spin-incoherent Luttinger liquid
- TuP105** H. P. Hsu, J. D. Wu, Y. J. Lin, Y. S. Huang, Y. R. Lin, and H. H. Lin
Optical characterization of GaAsSb/GaAs type-II quantum well with an adjacent InAs quantum-dot layer composite structures
- TuP106** A. F. Adiyatullin, S. V. Shevtsov, A. N. Minnullin, and V. S. Krivobok
Properties of excitonic states in MOCVD-grown $\text{Zn}(\text{Cd})\text{Se}/\text{ZnMgSSe}$ quantum wells with spreaded heterointerfaces

- TuP107** Y. Nishihara, K. Chida, T. Arakawa, S. Matsuo, T. Tanaka, K. Kobayashi, T. Ono, Y. Komijani, T. Ihn, K. Ensslin, D. Reuter, and A. D. Wieck
Shot noise of a quantum point contact on a two-dimensional hole gas
- TuP108** F. Nichele, A. Nath Pal, T. Ihn, K. Ensslin, C. Reichl, and W. Wegscheider
Spin splitting and effective masses in p-type GaAs two dimensional hole gases
- TuP109** P. B. Chakraborty, K. Byczuk, and D. Vollhardt
Thermodynamic and transport properties of interacting electrons in two dimensions with diagonal and off-diagonal disorder
- TuP110** T. Kaur, L. Arrachea, and N. Sandler
Dimensionality crossover in pumping: from one to two-dimensional systems
- TuP111** V. Kotimäki, E. Räsänen, H. Hennig, and E. J. Heller
Fractal dynamics in chaotic quantum transport
- TuP112** V. A. Kochelap, V. V. Korotyeyev, and L. Varani
Wave excitations of drifting two-dimensional electron gas under strong inelastic scattering
- TuP113** J. Wróbel, M. Czapkiewicz, P. Nowicki, V. Kolkovsky, T. Wojciechowski, M. Wiater, and T. Wojtowicz
Shot noise of CdTe/CdMgTe quantum point contact
- TuP114** C. J. Wesslén and E. Lindroth
Using the coupled cluster singles and doubles method to calculate many electron effects in 2D semiconductor structures
- TuP115** V. A. Petrov and A. V. Nikitin
Electric-field control of penetration of quantum-mechanical current density under semi-infinite potential barrier at the interference of the electron waves in semiconductor 2D nanostructures
- TuP116** A. A. Zabolotnykh and V. A. Volkov
Mechanism of giant microwave response of two-dimensional electron system near the second harmonic of the cyclotron resonance
- TuP117** F. Lomakina, O. Drachenko, H. Schneider, A. Patane, M. Hopkinson, and M. Helm
Investigation of the effective mass in GaAs_{1-y}N_y
- TuP118** T. Okayasu, M. Kohda, and J. Nitta
Magnetic focusing affected by an in-plane magnetic field in an InGaAs two-dimensional electron gas
- TuP119** M. Sznajder and J. A. Majewski
Morphology and charging of heteropolar SiC/AlN and SiC/GaN interfaces

- TuP120** S. Bhandari, E. Kalfon-Cohen, D. Bell, and R. M. Westervelt
Imaging electrons in graphene nanostructures
- TuP121** T. Noda, M. Jo, T. Mano, T. Kawazu, and H. Sakaki
Photocurrent studies of GaAs/AlGaAs coupled quantum well solar cells
- TuP122** J. Puustinen, A. Schramm, P. Laukkanen, L. Juhola, M. Wu, E. Luna, M. Laitinen, T. Sajavaara, and M. Guina
Structural properties of GaAsBi layers grown on GaAs by molecular beam epitaxy
- TuP123** S. Rath, J. Park, I. Lee, M. J. Kim, J. M. Baik, K. S. Yi, and G.-H. Kim
Annealing induced modulation of joule heating based metal-insulator transition point of VO₂ nanobeams for smart nanodevice applications
- TuP124** N. J. Lambert, M. Edwards, A. A. Esmail, F. Pollock, B. W. Lovett, A. J. Ferguson
A single-photon 'click' detector for microwave light
- TuP125** H. Al-Taie, L. W. Smith, J. P. Griffiths, H. Beere, G. A. C. Jones, D.A. Ritchie, C. G. Smith, and M. J. Kelly
Quantum Multiplexer: A novel device architecture for low-temperature measurements
- TuP126** L. W. Smith, H. Al-Taie, B. Xu, J. P. Griffiths, H. E. Beere, G. A. C. Jones, D. A. Ritchie, C. G. Smith, and M. J. Kelly
Towards nano-structure circuits using split gates
- TuP127** S. Takahashi, A. Tandraechanurat, R. Igusa, Y. Ota, J. Tatebayashi, S. Iwamoto, Y. Arakawa
Manipulation of circular polarization in a three-dimensional chiral photonic crystal
- TuP128** M. E. Boiko, M. D. Sharkov, A. M. Boiko, and A. V. Bobyl
SAXS domain structure characterization of a GaAs-GaSe multilayer film using irradiation wavelengths near absorption edges
- TuP129** M. Szot, K. Dybko, P. Dziawa, L. Kowalczyk, V. Domukhovski, B. Taliashvili, A. Reszka, B. J. Kowalski, P. Dłużewski, M. Wiater, T. Wojtowicz, and T. Story
Electric and thermoelectric properties of CdTe/PbTe epitaxial nanocomposite
- TuP130** K.-I. Lin, I.-C. Su, J.-S. Hwang, and S. Gwo
A semiconductor-like InN?
- TuP131** H. Sellier, P. Liu, B. Hackens, F. Martins, X. Wallart, L. Desplanque, V. Bayot, S. Huant
Coulomb blockade in 2DEG potential fluctuations revealed by SGM
- TuP132** C. Rössler, T. Krähenmann, S. Baer, T. Ihn, K. Ensslin, C. Reichl, W. Wegscheider
Tunable Charge Detectors for Semiconductor Quantum Circuits

- TuP133** E. A. Chekhovich, M. M. Glazov, A. B. Krysa, M. Hopkinson, P. Senellart, A. Lemaître, M. S. Skolnick, and A. I. Tartakovskii
Hole hyperfine interaction: valence band orbital composition and its effect on hole spin qubit dephasing
- TuP134** P. Roulleau, Y. Jompol, T. Jullien, I. Farrer, D. A. Ritchie, and D. C. Glattli
On-chip photon-assisted detection of the noise of a quantum point contact

Thursday, 4 July

17.00 – 19.00

- ThP1** D. A. Gradinar, M. Mucha-Kruczynski, H. Schomerus, and V. I. Fal'ko
Pseudo-magnetic field and resonant transport in strained graphene ribbons
- ThP2** A. Fukuda, D. Terasawa, Y. Ohno, and K. Matsumoto
Magnetotransport of the 4He-adsorbed bilayer graphene
- ThP3** B. Y. Sun and M. W. Wu
Microscopic theory of ultrafast dynamics of carriers photoexcited by THz and near-infrared linearly-polarized laser pulses in graphene
- ThP4** N. Kumada, R. Dubourget, S. Tanabe, H. Hibino, K. Sasaki, M. Hashisaka, H. Kamata, K. Muraki, and T. Fujisawa
Plasmon guiding in graphene demonstrated by time-resolved electrical measurements
- ThP5** L. Wang and M. W. Wu
Electron spin relaxation in bilayer graphene
- ThP6** T. M. Rusin and W. Zawadzki
Super-Zitterbewegung oscillations in monolayer graphene
- ThP7** C. Adlem, T. Poole, N. H. Mahlmeister, L. M. Lawton, I. J. Luxmoore, G. R. Nash
Thermal infrared emission from large area graphene
- ThP8** V. K. Dugaev and M. I. Katsnelson
Graphene in periodic deformation fields
- ThP9** U. Briskot, I. A. Dmitriev, and A. D. Mirlin
Quantum magnetooscillations in the ac conductivity of disordered graphene
- ThP10** D. Neilson, A. Perali, and A. R. Hamilton
High temperature superfluidity in double bilayer graphene

- ThP11** M. Gmitra, D. Kochan, and J. Fabian
Spin-orbit coupling enhancement in graphene due to hydrogenation
- ThP12** F. Tkatschenko, V. Krueckl and K. Richter
Superlattice effects on electronic- and transport properties of graphene nanoribbons
- ThP13** P. Potasz, D. Güçlü, B. Jaworowski, and P. Hawrylak
The electronic properties of graphene quantum dots in a strong magnetic field
- ThP14** I. Ozfidan, M. Korkusinski, A. D. Guclu, and P. Hawrylak
Electron-electron and finite state interactions in optical properties of colloidal graphene quantum dots
- ThP15** I. Naghmouchi and S. Jaziri
Excitons in armchair graphene nanoribbons
- ThP16** M. E. Portnoi and R. R. Hartmann
Momentum alignment of photoexcited carriers in graphene
- ThP17** M. E. Portnoi, C. A. Downing, R. R. Hartmann, and N. J. Robinson
Zero-energy states in graphene
- ThP18** L. Turyanska, F. Moro, A. N. Knott, M. W. Fay, T. D. Bradshaw, and A. Patané
Paramagnetic and fluorescent manganese-doped PbS nanocrystals
- ThP19** K. Shizuya
Orbital lamb shift of the pseudo-zero-mode Landau levels in bilayer and trilayer graphene
- ThP20** N. Tajima, T. Yamauchi, M. Suda, Y. Kawasugi, H.M. Yamamoto, R. Kato, Y. Nishio, K. Kajita
Quantum transport phenomena in molecular Dirac fermion systems
- ThP21** P. E. Kunavin and E. L. Rumyantsev
Spin-orbit vs. Zitterbewegung in 2D Kane and Dirac-like semiconductors
- ThP22** T. Kaur, L. Arrachea, and N. Sandler
Pumping in graphene: ribbons: transport in adiabatic and non-adiabatic regimes
- ThP23** M. Gryglas-Borysiewicz, A. Kwiatkowski, J. Przybytek, S. Butun, E. Ozbay, W. Strupiński, R. Stępniewski, M. Baj
Magnetotransport properties of epitaxial graphene grown on SiC
- ThP24** G. Y. Vasileva, D. Smirnov, Y. B. Vasilyev, P. S. Alekseev, Y. L. Ivanov, A. P. Dmitriev, V. Yu. Kachorovskii, H. Schmidt, A. Heine, and R. J. Haug
Magnetotransport study of the energy band in bilayer graphene

- ThP25** P. Kamyczek, P. Bieganski, E. Placzek-Popko, E. Zielony, L. Gelczuk, B. Sciana, D. Pucicki, D. Radziejewicz, M. Tlaczala, K. Kopalko, and M. Dabrowska-Szata
Electrooptical properties of diluted GaAsN on GaAs grown by APMOVPE
- ThP26** B.C. Camargo, Y. Kopelevich, M.A. Cotta, S.B. Hubbard, A. Usher, W. Böhlmann, P. Esquinazi
Effect of structural disorder on quantum oscillations in graphite
- ThP27** M. A. Akhukov, Shengjun Yuan, M. I. Katsnelson, and A. Fasolino
Electronic, magnetic and transport properties of graphene ribbons terminated by nanotubes
- ThP28** B. Tanatar
Dissipationless drag effect in double-layer graphene systems
- ThP29** K. Hosono and K. Wakabayashi
Effect of dielectric environment on carrier mobility in graphene double layer
- ThP30** M. Richter, M. Städter, U. Starke, and D. Schmeißer
Multiple Auger processes in graphene
- ThP31** J. Bundesmann, M.-H. Liu, I. Adagideli, and K. Richter
Spin conductance of diffusive graphene nanoribbons
- ThP32** N. Myoung, K. Seo, and G. Ihm
Electron-pseudophonon interaction and inelastic scattering in suspended graphene
- ThP33** L. Hesse, K. Richter, and X. Chen
Dynamics of Dirac electrons in a photon cavity
- ThP34** Z. Klusek, P. Dabrowski, I. Wlasny, W. Kozłowski, P. J. Kowalczyk, I. Zasada, J. Ślawinska, W. Strupinski, and J. M. Baranowski
Doping effect in graphene deposited on metals - scanning tunneling spectroscopy and density functional theory studies
- ThP35** H. Schmidt, J. Rode, C. Belke, D. Smirnov, and R. J. Haug
Mixing of edge states at a bipolar graphene junction
- ThP36** M. Rogala, P.J. Kowalczyk, W. Kozłowski, L. Lipińska, J. Jagiełło, K. Librant, P. Dąbrowski, J.M. Baranowski, K. Szot, and Z. Klusek
Resistive switching in reduced graphene oxide
- ThP37** M. Wawrzyniak-Adamczewska and T. Kostyrko
Electron transport properties of the fluorocarbon chain bridging two graphene leads
- ThP38** B. Jaworowski, P. Potasz, and D. Güçlü
Electron-electron interaction in graphene quantum dots

- ThP39** M. Glässl, A. M. Barth, M. D. Croitoru, A. Vagov, and V. M. Axt
Fast and robust preparation of excitons and biexcitons in a quantum dot even at strong carrier-phonon coupling
- ThP40** J.P. Vasco, P.T. Valentim, H. Vinck-Posada, and P. S. S. Guimarães
Fano resonances in L3 photonic crystal slab cavities
- ThP41** P. D. Hodgson, R. J. Young, M. A. Kamarudin, P. J. Carrington, A. Krier, Q. D. Zhuang, E. P. Smakman, P. M. Koenraad, and M. Hayne
Type-II GaSb/GaAs quantum rings: charging mechanisms and the bimolecular recombination approximation
- ThP42** P. D. Hodgson, R. J. Young, Q. D. Zhuang, M. A. Kamarudin, and M. Hayne
Optically-induced charge depletion in type-II GaSb/GaAs quantum dots and rings
- ThP43** P. Barthelemy and L. Vandersypen
Quantum simulations in quantum dots arrays
- ThP44** G. Bracher, K. Schraml, J. Wierzbowski, N. Coca Lopez, M. Blauth, M. Bichler, K. Müller, M. Kaniber and J. J. Finley
Coupling between surface plasmon polaritons and proximal InGaAs quantum dots in Au-GaAs plasmonic nanostructures
- ThP45** P. Szumniak and S. Bednarek
All electrical control of quantum gates for single heavy hole spin qubits in the presence of nuclear spins
- ThP46** P.L. Ardelet, K. Müller, A. Bechtold, G. Abstreiter, and J. J. Finley
Exotic quantum couplings in optically active quantum dot molecules
- ThP47** P. Karwat and P. Machnikowski
The evolution of spatial coherence in double quantum dots under the influence of phonons
- ThP48** W. Rudno-Rudziński, Ł. Dusanowski, M. Syperek, G. Sęk, J. Misiewicz, A. Somers, R. Schwertberger, J. P. Reithmeier, S. Höfling, and A. Forchel
Exciton dynamics in InAs/In_{0.53}Ga_{0.23}Al_{0.24}As/InP quantum dashes
- ThP49** P. Mrowiński, A. Musiał, G. Sęk, J. Misiewicz, S. Hein, S. Höfling, and A. Forchel
Exciton fine structure splitting and biexciton binding energy in InAs/InGaAlAs/InP quantum dashes
- ThP50** A. Musiał, G. Sęk, A. Maryński, M. Kozub, J. Misiewicz, A. Löffler, S. Hein, S. Höfling, S. Reitzenstein, J. P. Reithmaier, M. Kamp, and A. Forchel
Temperature dependent emission linewidth and the exciton dephasing in large and asymmetric III-V semiconductor quantum nanostructures

- ThP51** A. Maryński, G. Sęk, A. Musiał, J. Andrzejewski, J. Misiewicz, C. Gilfert, J.P. Reithmaier
Optical properties of quantum-dot-like InAs nanostructures grown by molecular beam epitaxy on InP substrate
- ThP52** K. Bocian and W. Rudziński
Andreev spin-polarized tunneling through a quantum dot interacting with phonons
- ThP53** S. Ratz and M. Grifoni
Nonlinear transport through interacting quantum dots with superconducting leads in the weak coupling regime
- ThP54** A. Tomioka, K. Takada, and M. Kawabata
Blue-shifted photoluminescence of MEHPPV nanoparticles fabricated by a novel visible-laser solution-droplet processing
- ThP55** A. Tomioka, K. Ozasa, and M. Kawabata
Lowered melting point of polyvinyl pyrrolidone bound 1D Ag nanowires
- ThP56** A. G. Milekhin, N. A. Yeryukov, A. I. Toropov, A. I. Nikiforov, and D. R. T. Zahn
In-plane Raman scattering by acoustic phonons in InAs/AlAs and Ge/Si quantum dot superlattices
- ThP57** D. Zhou, A. Beckel, A. Kurzmann, A. D. Wieck, D. Reuter, M. Geller, and A. Lorke
Transconductance spectroscopy on self-assembled dots: Beyond the ensemble average
- ThP58** K. Ryczko, G. Sęk, and J. Misiewicz
On the importance of in plane coupling within the ensemble of InAs/InGaAlAs/InP quantum dashes
- ThP59** Ł. Dusanowski, W. Rudno-Rudziński, M. Syperek, G. Sęk, J. Misiewicz, S. Hein, S. Höfling, and A. Forchel
Biexciton-exciton radiative cascade in single InAs/InGaAlAs/InP quantum dashes emitting near 1.55 μm
- ThP60** K. Moiseev, E. Ivanov, M. Motyka, F. Janiak, and J. Misiewicz
Type II heterostructures based on narrow-gap InAs-rich compounds
- ThP61** A. Schramm, J. Tommila, T.V. Hakkarainen, E. Heinonen, M. Dumitrescu, M. Guina
Integration of single site-controlled InAs quantum dots, fabricated by nanoimprint lithography and molecular beam epitaxy, into optical micropillar cavities
- ThP62** N. Ishihara, R. Takemoto, N.A. Jahan, H. Nakajima, M. Jo, T. Mano, H. Kumano, I. Suemune
High-Q resonance peak observed from metal-embedded InAs/GaAs quantum dot nano-cavity

- ThP63** Y. Parkhomenko, V. Romanov, P. Dement'ev, N. Nevedomsky, N. Bert, E. Ivanov, and K. Moiseev
Type II InSb quantum dots in narrow-gap InAs(Sb,P) matrix: structural, electrical and luminescent properties
- ThP64** J.-T. Hung, Ł. Cywiński, X. Hu, and S. Das Sarma
Hyperfine interaction induced dephasing of coupled spin qubits in semiconductor double quantum dots
- ThP65** K. Horibe, T. Koder, and S. Oda
Direct measurement of the valley splitting in a few-electron silicon quantum dot using charge sensor source-drain bias spectroscopy
- ThP66** R. Li, F. E. Hudson, A. S. Dzurak, and A. R. Hamilton
Single hole transistor in a conventional silicon metal-oxide-semiconductor structure
- ThP67** T. Koder, K. Horibe, Y. Arakawa, and S. Oda
Few-electron silicon single and double quantum dots fabricated in a metal-oxide-semiconductor structure
- ThP68** M. Koperski, M. Goryca, F. Malinowski, T. Smoleński, A. Golnik, P. Wojnar, P. Kossacki
Time resolved study of magnetic fluctuations in CdTe/ZnTe quantum dots containing a few Mn²⁺ ions
- ThP69** U. C. Mendes, M. J. Korkusinski, A. H. Trojnar, and P. Hawrylak
Kondo correlations in optical spectrum of electrons confined in quantum dots doped with single mn spin
- ThP70** Ł. Kłopotowski, V. Voliotis, Ł. Cywinski, P. Wojnar, M. Szymura, K. Fronc, T. Kazimierzczuk, A. Golnik, R. Grousson, G. Karczewski, and T. Wojtowicz
Signatures of exciton spin relaxation in photoluminescence spectra of semimagnetic quantum dots
- ThP71** O. Klochan, A. Micolich, A. Hamilton, D. Reuter, A. Wieck, F. Reininghaus, M. Pletyukhov, H. Schoeller
Scaling of the Kondo zero bias peak in a hole quantum dot at finite temperature
- ThP72** A. W. Heine, D. Tutuc, R. Žitko, and R. J. Haug
Kondo effect of a quantum dot in the mixed valence regime
- ThP73** M. Kawamura, D. Gottwald, K. Ono, T. Machida, and K. Kono
Resistive read-out of nuclear spin signals from a single quantum dot under the Kondo effect regime
- ThP74** J. Park, S.-S. Lee, Y. Oreg, and H.-S. Sim
How to directly measure Kondo cloud's length

- ThP75** A. Kurzmann, A. Beckel, S. Wisotzki, D. Reuter, A. D. Wieck, M. Geller, A. Lorke
The effect of charged quantum dots on the mobility of a two-dimensional electron gas: How strong is Coulomb scattering?
- ThP76** Ł. Marcinowski, K. Roszak, and P. Machnikowski
Phonon effects on the measurement of two-spin states in a double quantum dot
- ThP77** A. A. Vasilchenko
Oscillatory persistent currents in quantum dots
- ThP78** L. Serra, J. S. Lim, and R. López
Characteristics of Majorana modes in cylindric wires
- ThP79** B. Ganjipour, B. Mattias Borg, L.-E. Wernersson, L. Samuelson, H.Q. Xu, C. Thelander
Measurements of g factors in GaSb/InAs core/shell nanowire hole quantum dots
- ThP80** F. Haas, P. Zellekens, Ö. Gül, T. Rieger, M. Lepsa, D. Grützmacher, H. Lüth, Th. Schäpers
Coherent transport in GaAs/InAs core/shell nanowires
- ThP81** P. Wójcik, J. Adamowski, B. J. Spisak, and M. Wołoszyn
Spin current polarization at room temperature in a nanowire resonant tunneling diode
- ThP82** Z. Cui, R. Perumal, T. Ishikura, and Kanji Yoh
Observation of direct spin injection from NiFe into an InAs nanowire
- ThP83** *Poster upgraded to oral presentation in Thursday MSS Session 4*
- ThP84** J. Jadcak, P. Plochocka, A. Mitoglu, D. K. Maude, G. L. J. A. Rikken, H. Shtrikman
Correlation of structural and optical properties of single core shell GaAs/AlAs nanowire in polarization-resolved and power-dependent photoluminescence
- ThP85** L. Konopko, T. Huber, and A. Nikolaeva
Self-organization of Bi bilayers in nanowires
- ThP86** S. Kobayakawa, A. Endo, S. Katsumoto, and Y. Iye
Diffusion thermopower of quantum Hall systems measured in Hall-bar and Corbino geometry
- ThP87** S. Hidaka, H. Iwase, M. Akabori, S. Yamada, Y. Imanaka, and T. Takamasu
Quantum Hall effect in $\text{In}_{0.75}\text{Ga}_{0.25}\text{As}/\text{In}_{0.75}\text{Al}_{0.25}\text{As}$ two-dimensional electron gas bilayer samples
- ThP88** R. Moriya, S. Umezawa, S. Masubuchi, Y. Hashimoto, S. Katsumoto, T. Machida
Coexistence of two different mechanism of dynamic nuclear polarization in a transition region between integer quantum Hall states
- ThP89** S. W. Kim, Y. Hashimoto, T. Nakamura, Y. Iye, and S. Katsumoto

Spin polarization on a plateau of a half conductance quantum in a quantum point contact

- ThP90** S. Tsuda, S. Mitani, M. Hai N., A. Fukuda, D. Terasawa, and A. Sawada
Current frequency dependence of the resistance enhancement in the $\nu = 2/3$ quantum Hall state
- ThP91** M. H. Fauzi and Y. Hirayama
Possible observation of nuclear superradiant emission in quantum Hall system
- ThP92** M. Kataoka, J. D. Fletcher, H. Howe, M. Pepper, P. See, S. P. Giblin, J. P. Griffiths, G. A. C. Jones, I. Farrer, D. A. Ritchie, and T. J. B. M. Janssen
Detecting the energy spectrum of single electron emission in the quantum Hall regime
- ThP93** N.T. Bagraev, E.Y. Danilovsky, W. Gehlhoff, D. S. Gets, L. E. Klyachkin, A. A. Kudryavtsev, R. V. Kuzmin, A. M. Malyarenko, V.A. Mashkov, V. V. Romanov
Electrically-detected ESR in silicon nanostructures inserted in microcavities
- ThP94** H. Lehmann, T. Benter, T. Matsuyama, and U. Merkt
Spin-resolved conductance quantization and evidence for zitterbewegung in InAs
- ThP95** B. Baxevanis and D. Pfannkuche
Influence of spin relaxation and Coulomb correlations on the dynamics of an open quantum dot
- ThP96** J. Debus, A. A. Maksimov, D. Dunker, I. I. Tartakovskii, E. V. Filatov, D. R. Yakovlev, A. Waag, and M. Bayer
Heating efficiency of the Mn spin system by photoexcited holes in type-II (Zn,Mn)Se/(Be,Mn)Te quantum wells
- ThP97** W. Szuszkiewicz, B. Hennion, S. Petit, E. Dynowska, E. Janik, G. Karczewski, T. Wojtowicz
Magnetic order, magnon confinement and propagation in MnTe/ZnTe superlattices
- ThP98** Takuma Tsuchiya
Improvement in incomplete persistent spin helix by dynamical Mn-spin polarization in dilute magnetic semiconductors
- ThP99** Y. Hama, G. Tsitsishvili, and Z. F. Ezawa
Spin supercurrent in the canted antiferromagnetic phase
- ThP100** Y. Kunihashi, H. Sanada, H. Gotoh, K. Onomitsu, M. Kohda, J. Nitta, and T. Sogawa
Gate-controlled spin precession of drifting electrons in GaAs QW
- ThP101** S.U. Yuldashev, H. C. Jeon, Y.H. Kwon, S.J. Lee, T.W. Kang, G. Ihm, K.T. Igamberdiev
On the origin of ferromagnetism and weak spin interaction in $\text{Zn}_{1-x}\text{Co}_x\text{O}$

- ThP102** J. Debus, V. F. Sapega, D. Dunker, D. R. Yakovlev, G. Karczewski, T. Wojtowicz, and M. Bayer
Spin-flip Raman scattering of electron and heavy-hole in CdTe quantum well enabled by anisotropic exchange
- ThP103** S. Dusari, P. Meixner, A. Mogilatenko, J. Sanchez-Barriga, L.V. Yashina, S. Valencia, A. Unal, F. Kronast, O. Rader, and S. F. Fischer
Transport properties of thin Bi_2Se_3 flakes in the presence of defects and disorder
- ThP104** S. Safaei, P. Kacman, and R. Buczko
Surface states of the topological crystalline insulator $\text{Pb}_{0.4}\text{Sn}_{0.6}\text{Te}$
- ThP105** I. Adagideli, M. Wimmer, and A. Teker
Inducing topological order in dirty wires: Majorana fermions from scattering
- ThP106** A. Nikolaeva, L. Konopko, T. Huber, I. Popov, and N. Kablukova
Manifestation of the properties of a topological insulator in semiconducting $\text{Bi}_{1-x}\text{Sb}_x$ nanowires
- ThP107** Y. Arango, J. Kampmeier, T. Merzenich, C. Weyrich, G. Mussler, D. Grützmacher, and T. Schäpers
Transport studies on ultrathin epitaxial Bi_2Se_3 Topological Insulator epilayers
- ThP108** V. Vargiamidis, P. Vasilopoulos, and M. R. S. Tavares
Transport on the surface of a topological insulator
- ThP109** Eddy P. Rugeramigabo, Lina Bockhorn and Rolf J. Haug
Magnetoresistance studies in GaAs/AlGaAs single quantum wells with different impurity densities
- ThP110** V. O. Gordo, H. V. A. Galeti, L. K. S. Herval, Y. Galvão Gobato, M. J. S. P. Brasil, M. Henini, R. J. Airey
Bias controlled spin polarization in two dimensional electron and hole gases
- ThP111** L. E. Golub
Anomalous magnetoresistance in (110) quantum wells
- ThP112** J. Inarrea and G. Platero
Effect of a tilted magnetic field on radiation-induced zero resistance states and resistance oscillations in a 2DEG
- ThP113** M. Prada and D. Pfannkuche
Self-sustained oscillations in coupled nanomechanical resonators
- ThP114** I. A. Larkin, O. G. Balev

Edge magnetoplasmons in strongly non-uniform magnetic field

- ThP115** I. Larkin, S. Ujevic, S. Wiedmann, N.C. Mamani, G.M. Gusev, A.K. Bakarov, J. C. Portal
Shubnikov - de Haas effect and spin-splitting in tilted magnetic fields in wide quantum well
- ThP116** A. J. Robson, I. Grishin, R. J. Young, A. M. Sanchez, O. V. Kolosov, and M. Hayne
High-accuracy (0.1 ± 0.2 nm) analysis of GaAs/Al_xGa_{1-x}As layers using beamexit cross-sectional polishing and selective etching
- ThP117** T. Chirila, M. Cerchez, B. Schüler, T. Heinzl, H. W. Schumacher, and K. Pierz
Electron beam collimation and non-ohmic resistance addition in quasi-ballistic magnetic barriers
- ThP118** Maciej Fidrysiak
Universal behavior of the magnon gaps in doped quasi-2D antiferromagnets
- ThP119** W. Bardyszewski and S. P. Łepkowski
Optical anisotropy in [0001] oriented Al_xGa_{1-x}N/AlN quantum wells under pressure
- ThP120** M. Białek, K. Karpierz, M. Grynberg, M. Czapkiewicz, K. Fronc, J. Wróbel, V. Umansky, B. Pietka, and J. Łusakowski
High-index plasmon excitation in high electron mobility GaAs/AlGaAs heterostructures
- ThP121** H. Niehus and D. Pfannkuche
Application of low-energy theories to describe the dynamics of doublons in the Bose-Hubbard model on a honeycomb lattice
- ThP122** F. Hohls, P. Mirovsky, L. Fricke, B. Kaestner, C. Leicht, K. Pierz, J. Melcher, and H.W. Schumacher
Current waveform synthesis by quantized single-electron pumping
- ThP123** A. Wong, K. Ingersent, M. Zarea, S. E. Ulloa, and N. Sandler
Enhanced Kondo effect in two-dimensional helical electrons
- ThP124** P. Kruszewski, P. Prystawko, I. Kasalynas, J. Plesiewicz, R. Dwiliński, M. Zając, R. Kucharski, and M. Leszczyński
Carriers mobility of 2DEG of AlGa_N/Ga_N structure on bulk ammonothermal Ga_N substrate
- ThP125** N. Teneh, A. Yu. Kuntsevich, V. M. Pudalov, and M. Reznikov
Spin-Droplet State of an Interacting 2D Electron System
- ThP126** W. Knap, N. Dyakonova, S. Rumyantsev, M.S. Vitiello, D. Coquillat, S. Blin, F. Teppé
Plasma oscillations in 2DEG nanometer field effect transistors for terahertz detection

- ThP127** A. R. Hamilton, J. C. H. Chen, Z. K. Keane, M. C. Godfrey, D. Q. Wang, O. Klochan, S. Fricke, A. M. Burke, A.P. Micolich, K. Das Gupta, F. Sfigakis, H. E. Beere, D.A. Ritchie, D. Reuter, and A. D. Wieck
Electron and hole transport in ambipolar GaAs devices
- ThP128** M. T. Edmonds, L. H. Willems van Beveren, O. Klochan, J. Cervenka, S. Prawer, L. Ley, A. R. Hamilton, and C. I. Pakes
Weak anti-localisation in p-type surface conducting (100) hydrogen terminated diamond: Proof of a 2DHS
- ThP129** J. M. Sajkowski, M. A. Pietrzyk, M. Stachowicz, A. Droba, E. Przezdziecka, A. Wierzbicka, M. Syperek, and A. Kozanecki
Optical properties of ZnO/ZnMgO quantum wells grown by PAMBE
- ThP130** R. Shinde and A. Shukla
ab initio calculations of optical absorption in planar boron wheels
- ThP131** H. Kamata, N. Kumada, M. Hashisaka, K. Muraki, and T. Fujisawa
Fractionalized wave packets from an artificial Tomonaga-Luttinger liquid
- ThP132** V. I. Nizhankovskii
Spontaneous magnetization of a metal-insulator interface
- ThP133** R. Butkutė, V. Pačebutas, B. Čechavičius, R. Nedzinskas, and A. Krotkus
Photoluminescence at up to 2.2 μm wavelengths from InGaAsBi/AlInAs quantum well
- ThP134** I. Zasada and M. Rybicki
Structural and magnetic properties of Fe bi-layer on W(110)
- ThP135** M. Kołodziej and G. Harań
Spin-orbit coupling effect on a particle density correlation in a two-dimensional electron gas
- ThP136** R. V. Vitlina, L. I. Magarill, and A. V. Chaplik
Inelastic light scattering by 2D electronic system with SO coupling in a strong magnetic field
- ThP137** T. Nakamura, Y. Takahashi, Y. Hashimoto, D.H. Yun, S.W. Kim, Y. Iye, S. Katsumoto
Josephson current suppression due to the spin Hall effect in InAs two-dimensional electron systems
- ThP138** E. M. Kendirlik, S. Sirt, S. B. Kalkan, and A. Siddiki
The influence of the edge effects on the Hall resistance anomaly
- ThP139** D. Hatanaka, I. Mahboob, K. Onomitsu and H. Yamaguchi
A membrane-based phononic crystal waveguide

- ThP140** M. Pakmehr, B.D. McCombe, O. Chiatti, S. Buchholz, S. Fischer, C. Heyn, W. Hansen
Effective g-factors in InAs 2DEGs from THz magneto-photoresponse
- ThP141** V. E. Bisti, A. S. Zhuravlev, and L. V. Kulik
Quantum well D⁻ complexes in a high magnetic field: evidence for their interface nature
- ThP142** A. Yu. Kuntsevich, L. A. Morgun, and V.M. Pudalov
Electron-electron interaction correction and magnetoresistance of 2DE system in the parallel field
- ThP143** J. Jadczyk, L. Bryja, A. Wójs, M. Potemski, P. Plochocka, F. Liu, D. R. Yakovlev, M. Bayer, D. Reuter, A. Wieck, C. A. Nicoll, I. Farrer, and D. A. Ritchie
Coexistence of nearly free and strongly bound trions from magneto-photoluminescence of two-dimensional quantum structures with tunable electron or hole concentration
- ThP144** M. Ramírez-López, M. Pérez-Caro, Y. L. Casallas-Moreno, and M. López-López
Interference effects on the photoluminescence of AlGaIn/GaN quantum wells
- ThP145** M. Gawełczyk and P. Machnikowski
Orientation efficiency and unavoidable decoherence in optical initialization of hole spins in p-doped quantum wells
- ThP146** K. Bocian and W. Rudziński
Andreev reflection in spin-polarized transport through an interacting quantum dot in a hybrid tunneling junction
- ThP147** K. Ryczko, G. Sęk, and J. Misiewicz
Engineering of type II quantum wells for a broad range of mid infrared emission in interband cascade lasers
- ThP148** F. Janiak, M. Motyka, G. Sęk, K. Ryczko, J. Misiewicz, R. Weih, M. Dallner, S. Höfling, M. Kamp, and A. Forchel
Optical properties of type II quantum wells based on GaSb and InAs emitting in a mid infrared range
- ThP149** M. Grayson, C. Zhou, S. Birner, Y. Tang, and K. Heinselman
p × n-type transverse thermoelectrics: Driving perpendicular heat flow in type II superlattices of InAs/GaSb
- ThP150** V. Liverini, L. Nevou, F. Castellano, A. Bismuto, M. Beck, F. Gramm, and J. Faist
Room-temperature TE-polarized intersubband electroluminescence from quantum cascade structures based on InAs/AlInAs quantum dashes

- ThP151** A. F. Croxall, B. Zheng, F. Sfigakis, K. Das Gupta, I. Farrer, C. A. Nicoll, H. E. Beere, and D. A. Ritchie
Ambipolar high-mobility transistors in undoped GaAs/AlGaAs quantum wells
- ThP152** J. B. Kinzel, F. J. R. Schülein, M. Weiss, D. Rudolph, G. Koblmüller, J. J. Finley, G. Abstreiter, A. Wixforth, and H. J. Krenner
Surface acoustic wave-driven carrier dynamics as a contact-less probe for mobilities of photogenerated carriers in undoped nanowires
- ThP153** K. Schraml, G. Bracher, M. Spiegl, M. Kammerlocher, B. Mayer, M. Bichler, K. Müller, M. Kaniber and J.J. Finley
Lithographically defined plasmonic bowtie nanoantennas on GaAs and SiO₂ substrates with proximal quantum emitters
- ThP154** C. Sanchez-Munoz, E. del Valle, A. Gonzalez-Tudela, S. Lichtmannecker, K. Mueller, A. Buse, C. Tejedor, J. J. Finley, and F.P. Laussy
Two-photon lasing in the dispersive regime of cavity QED
- ThP155** G. Springholz, I. Daruka, H. Groiss, F. Schäffler, A. Hochreiner, A.Khiar, and M. Eibelhuber
Capillary driven strain-free synthesis of epitaxial PbTe/CdTe quantum dots for min-infrared devices
- ThP156** M. Gschrey, F. Gericke, R. Schmidt, A. Schüssler, J.-H. Schulze, T. Heindel, S. Rodt, A. Strittmatter, and S. Reitzenstein
In-situ electron-beam lithography of deterministic nanophotonic structures using low temperature cathodoluminescence spectroscopy