Time Table

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9	Opening Cerem. 9:00–10:30 **Session MA:** Quantum Hall Ferromagnets p. 9	9:00–10:30 **Session TA:** Fractional QHE p. 15	9:00–10:30 **Session WA:** Magnetic Semiconductors pp. 21–22	9:00–10:30 **Session RA:** Nuclear Spin Effects pp. 22–23	9:00–10:15 **Session FA:** Carbon Nanotubes p. 28
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11	11:00–12:30 **Session MB:** Optical/Accoustical Interacions pp. 9–10	11:00–12:30 **Session TB:** Double-Layer Systems pp. 15–16	11:00–12:30 **Session WB:** Spin-Orbit Interaction p. 22	11:00–12:30 **Session RB:** Kondo Effect, Spin Blockade p. 23	10:45–12:15 **Session FB:** Noise,Transport in Small Structures p. 28
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14	14:00–15:30 **Session MC:** Localization, M-I Transitions p. 10	14:00–15:30 **Session TC:** Real-/*k*-Space Mapping p. 16	14:00–19:00 Time for Informal Discussions	14:00–15:30 **Session RC:** Hybrid Structures p. 23	
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16	16:00–18:30 **Posters MP:** pp. 10–15	16:00–17:30 **Session TD:** Transport in Periodic Structures p. 16		16:00–18:30 **Posters RP:** pp. 23–28	
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20		19:30–22:00 **Posters TP:** pp. 17–21	20:00–23:00 Medieval Feast		
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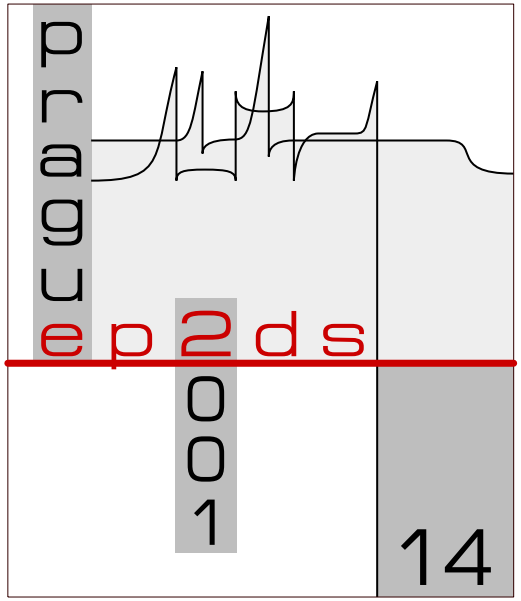
Conference Program

The 14th International Conference on the Electronic Properties of Two-Dimensional Systems



Hotel Pyramida/Hostel Kajetánka
July 30 – August 3, 2001

Conference Webpage:
http://ep2ds14.fzu.cz/ep2ds14/

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Important Information

Dates

Sunday, July 29, 2001	Registration (Pyramida, 14:00–21:00) Welcome Party (Pyramida, 19:00–22:00)
Monday, July 30, 2001	Beginning of the Conference (Pyramida, 8:45)
Tuesday, July 31, 2001	Open Bar by Elsevier Science (Kajetánka, Poster Area, 20:30–22:30)
Friday, August 03, 2001	End of the Conference

Sites

Main Site

Hotel Pyramida
Bělohorská 24
160 00 Praha 6
Czech Republic, Europe

Posters

Hostel Kajetánka
Radimova 12
160 00 Praha 6
Czech Republic, Europe

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Icaris Ltd. *Conference Management*
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On-Site Registration

The on-site registration desk will open at 14:00 on Sunday, July 29. The registration desk will be located in front of the Congress Hall and will be available during the conference from 08:00 and will close one hour after the end of the oral sessions. **All participants are asked to proceed to the registration desk** to pick up their badge and their name tags.

The name tags should be worn all the time as they serve, besides plain identification, also the purpose of distinguishing the conference participants from the general public. This concerns the admission to the conference program and the refreshment served during the breaks, the welcome party and the Elsevier Open Bar Session.

Participants who did not register in advance can register on-site at the standard registration rates (EUR 400 regular, EUR 300 student).

E-mail Access

During the Conference, the participants may communicate with the rest of the world by means of the e-mail address:

ep2ds@volny.cz

Between Sunday, July 29 evening and Friday, July 03, 15:00, the "Computer and E-mail Center" (first floor, "salonek č. 1") will be available to the Conference participants where they might compose and send e-mail messages ***from*** the aforementioned address. All messages sent to the aforementioned address should contain ***the name of the addressee*** in the subject line. These incoming messages will be printed bihourly and put in the participants' mail boxes.

Social Events Organized for Conference Paricipants

Welcome Party

The reception will take place in the Pyramida Hotel, Sunday, July 29, 19:00–22:00.

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Elsevier Open (Bar) Session

The reception will take place in the Kajetánka Hostel, Tuesday, July 31, 20:30–22:30 (during and after the poster session). This event will be supported by Elsevier Science.

Medieval Feast

This event will be organized by "Icaris Ltd. Conference Management" and is not covered by the Conference Fee.

In the afternoon on Wednesday, August 1, trips to various historical places of interest (Kutná Hora, Konopiště, Poděbrady, Mělník) will be organized. In the evening, participants will be transported to the Dřevčice fortress where a medieval feast will take place, partly sponsored for all registered Conference participants.

General Program Information

Language

The Conference language is English.

Oral Presentations

All oral presentations will be delivered in the Congress Hall of the Pyramida Hotel. Following the tradition of EP2DS-14, there will be no parallel sessions. Of the time allocated to each oral presentation (15 or 30 minutes), twenty per cent (i.e., 3 or 6 minutes) are reserved for a discussion.

Poster Presentations

Poster sessions are scheduled for Monday and Thursday afternoon and Tuesday evening. All posters will be displayed in the Kajetánka Hostel A single board 150 cm wide $\times$ 120 cm high (i.e., approx. 59" wide $\times$ 47" high) will be assigned for each poster. Each poster board has an identification number (identical with the *numerical* part of its identification in the Conference Program/Workbook) prepared and put in place by the organizers. To attach the posters, the participants shall use pins supplied by the organizers.

Authors should mount their material on the assigned board at least two hours prior to their poster presentation and take down their poster by lunchtime of the following day. Authors should be in attendance throughout the period they have been assigned for their poster presentation.

Conference Proceedings

The Conference Proceedings shall appear as a regular issue of Physica E. In preparation of the manuscripts, the authors should have followed the instructions on the Conference Website.

Manuscript Room

During the Conference, the Manuscript Room will be open in the Business Center, close to the Conference Hall.

In this room, the authors who had submitted a PHYSICA E version of their manuscript should hand in

- the data media (preferably, floppy disks) with their manuscripts
- the revised versions of their manuscripts

Refereeing

In order to accelerate the Conference Proceedings publication, all papers should be refereed before and during the Conference. Therefore

- during the Conference, any participant may be asked to referee a paper;
- the referee reports will be distributed into the authors' mail boxes; the authors are asked to check them frequently;
- upon a referee request, the authors may have to revise their manuscripts; during the Conference they may use the computers available in the "Computer and E-mail Center" (first floor, "salonek č. 1") for that purpose.

In conclusion, the participants (as well as the organizers) should (and will) take every effort to facilitate the Conference Proceedings timely publication.

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Invited Speakers

Invited lectures are set in **boldface** in the Conference Program.

Y. Ji (Weizmann Institute of Science, Israel) *Phase measurement in a quantum qot with Kondo correlations* (RB.2)
T. Jungwirth (University of Texas at Austin, USA) *Two-dimensional Ising physics in quantum Hall ferromagnets* (MA.1)
P. Kossacki (Warsaw University, Poland) *Light controlled and probed ferromagnetism of (Cd,Mn)Te quantum wells* (WA.1)
C. Lambert (Lancaster University, UK) *Ferromagnetic-superconducting mesoscopic hybrids* (RC.3)
D. Mailly (CNRS-LPN, France) *Aharonov-Bohm cages in AlGaAs-GaAs systems* (TD.1)
P. Main (Nottingham University, UK) *Mapping the wavefunctions in quantum dots* (TC.1)
F. Matsukura (Tohoku University, Japan) *Control of ferromagnetism in a magnetic semiconductor field-effect transistor* (WA.2)
U. Merkt (University of Hamburg, Germany) *Supercurrents in two-dimensional electron systems* (RC.1)
H. Park (Harvard University, USA) *Transport and scanned probe investigations on carbon nanostructures* (FA.2)
G. Salis (University of California at Santa Barbara, USA) *Optical manipulation of nuclear spin by a two-dimensional electron gas* (RA.1)
C. Schönenberger (University of Basel, Switzerland) *Quantum and interaction effects in electron transport of carbon nanotubes* (FA.1)
J. Weis (Max-Planck Institute, Stuttgart, Germany) *Experiments on Kondo physics in single and electrostatically coupled quantum dots* (RB.1)
A. Wixforth (Ludwig-Maximilian University, Müchen, Germany) *Acoustoelectric and acoustooptic interactions in quantum wells: the role of nonlinearity* (MB.1)

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Pershin, Yu.V., **TP.68**
Petchsingh, C., **TP.56**
Petroff, P.M., MC.5, RP.19
Petrou, A., MB.2
Pfeiffer, L.N., MP.24, MP.31, MP.46, MP.57, TA.2, TA.5, TP.13, RP.45, FB.3
Pi, M., RP.14, RP.36
Picciotto, de, R., *see* de Picciotto, R.
Pierz, K., MP.71, TP.75
Pinczuk, A., MP.57, TA.2, RP.45
Pioro-Ladriere, M., RB.3
Plagwitz, H., RP.21
Planel, R., RP.34
Platero, G., TP.53, RP.27, **RP.53**
Plaut, A.S., **MP.57**
Ploner, G., MP.81
Ploog, K., MP.68, TP.10
Plotnikov, A.Y., RP.52
Pogosov, A.G., MC.4
Polyakov, D.G., **TP.32**
Ponomarenko, L., MP.27, MP.35, RP.68
Poole, P.J., RP.33
Poortere, De, E.P., *see* De Poortere, E.P.
Popov, V.G., TB.4
Popović, D., MC.3, **MP.26**
Porras, D., MP.66
Porras-Montenegro, N., MP.47
Portal, J.C., TB.4, **TP.30**, TP.60, RA.2, RP.37, RP.52
Portnoi, M.E., **MP.80**
Possanzini, C., **MP.27**, MP.35
Potemski, M., MP.42, MP.48, MP.70, WA.4, RA.2, RP.34
Prasad, C., MP.29, RP.58
Predel, H., TP.78
Prettl, W., MP.14
Prinz, A., MC.1

Conference Program

Sunday

Registration (Pyramida Hotel) *from 14:00*

Welcome Party (Pyramida Hotel) *19:00–22:00*

Monday

Opening Ceremony *8:45–9:00*

MA Quantum Hall Ferromagnets ***9:00–10:30***

Chair: KLAUS VON KLITZING

MA.1 ***9:00–9:30*** T. JUNGWIRTH, A.H. MacDonald and E.H. Rezayi: ***Two-dimensional Ising physics in quantum Hall ferromagnets***

MA.2 ***9:30–9:45*** N. KUMADA, D. Terasawa, Y. Shimoda, H. Azuhata, A. Sawada, Z.F. Ezawa, K. Muraki, T. Saku, and Y. Hirayama: *Various phase transitions in* $\nu = 2/3$ *bilayer quantum Hall states*

MA.3 ***9:45–10:00*** K. MURAKI, T. Saku and Y. Hirayama: *Activation studies of anisotropic quantum Hall ferromagnets with zero single-particle gap*

MA.4 ***10:00–10:15*** V. ZHITOMIRSKY, R. Chughtai, R.J. Nicholas and M. Henini: *Spin polarization of 2D electrons in the quantum Hall ferromagnet: Evidence for a partially polarized state around filling factor one*

MA.5 ***10:15–10:30*** E.P. DE POORTERE, E. Tutuc and M. Shayegan: *Hysteretic resistance spikes at transitions between quantum Hall ferromagnets in AlAs 2D electrons*

Coffee Break *10:30–11:00*

MB Optical and Acoustical Interactions ***11:00–12:30***

Chair: PAWEL HAWRYLAK

MB.1 ***11:00–11:30*** A. WIXFORTH, M. Rotter, C. Rocke, H.J. Kutschera, A.V. Kalameitsev and A.O. Govorov: ***Acoustoelectric and acoustooptic interactions in quantum wells: The role of nonlinearity***

MB.2 ***11:30–11:45*** H.A. NICKEL, T. Yeo, C.J. Meining, A.B. Dzyubenko, M. Furis, D.R. Yakovlev, B.D. McCombe and A. Petrou: *Interaction of an electron gas with photoexcited electron-hole pairs in modulation-doped GaAs and CdTe quantum wells*

MB.3 ***11:45–12:00*** W. OSSAU, D.R. Yakovlev, G.V. Astakhov, A. Waag, C.J. Meining, H.A. Nickel, B.D. McCombe and S.A. Crooker: *High magnetic field optical studies of 2DEG in modulation doped ZnSe quantum wells*

MB.4 ***12:00–12:15*** F. PEREZ, B. Jusserand, B. Etienne: *Single particle excitation, Luttinger liquid and Raman scattering on quantum wire: Apparent contradiction*

MB.5 ***12:15–12:30*** C.L. Yang, M.A. Zudov, J. Zhang, R.R. Du: *Magnetophonon resonance of two-dimensional electrons by leaky interface-acoustic phonons*

Lunch Break *12:30–14:00*

MC Localization and Metal-Insulator Transitions ***14:00–15:30***

Chair: Vladimir Pudalov

MC.1 ***14:00–14:30*** M.E. Gershenson, V.M. Pudalov, H. Kojima, N. Butch, E.M. Dizhur, G. Brunthaler, A. Prinz and G. Bauer: *Crossed magnetic fields technique for studying spin and orbital properties of 2d electrons in the dilute regime*

MC.2 ***14:30–14:45*** A. Lewalle, M. Pepper, C.J.B. Ford, D.J. Paul, N. Griffin, B.P. Coonan, G. Redmond and G.M. Crean: *Investigation of the zero-field 2D "metallic" state with r_S and $k_F l$ controlled independently*

MC.3 ***14:45–15:00*** J. Jaroszyński, D. Popović and T.M. Klapwijk: *Low-frequency resistance noise studies across the metal-insulator transition in silicon MOSFETs*

MC.4 ***15:00–15:15*** A.K. Savchenko, Y.Y. Proskuryakov, S.S. Safonov, S.H. Roshko, M. Pepper, M.Y. Simmons, D.A. Ritchie, A.G. Pogosov, Z.D. Kvon: *Fermi-liquid behaviour near the crossover from 'metal' to 'insulator' of 2D electron and hole systems*

MC.5 ***15:15–15:30*** T. Heinzel, R. Jäggi, M. von Waldkirch, E. Ribeiro, K. Ensslin, S.E. Ulloa, G. Medeiros-Ribeiro and P.M. Petroff: *Transport signatures for correlated disorder in self-assembled InAs quantum dots on GaAs*

MP Monday/Posters ***16:00–18:30***

MP.1 S. Dickmann: *Non-Hartree-Fock skyrmions and corrections to activation energy in a quantum Hall ferromagnet*

MP.2 Z.F. Ezawa, K. Hasebe and A. Sawada: *SU(4) quantum coherence and interlayer tunneling in bilayer quantum Hall systems*

MP.3 G. Nachtwei, A. Manolescu, N. Nestle and H. Künzel: *Ferromagnetism in a quantum Hall system due to exchange enhancement in a GaInAs quantum well*

MP.4 A. Burkov, J. Schliemann, A.H. MacDonald and S. M. Girvin: *Phase transition and spin-wave dispersion in quantum Hall bilayers at filling factor* $\nu = 1$

MP.5 J. Sinova, A.H. MacDonald and S.M. Girvin: *Disorder and interactions in quantum Hall ferromagnets: Effects of disorder in Skyrmion physics*

MP.6 E. Ahlswede, J. Weis, K. von Klitzing and K. Eberl: *Hall potential distribution in the quantum Hall regime in the vicinity of a potential probe contact*

MP.7 H. Akera: *Current distribution in the breakdown of the quantum Hall effect*

MP.8 N.G. Kalugin, Yu.B. Vasilyev, S.D. Suchalkin, G. Nachtwei, B.E. Sagol and K. Eberl: *Time-resolved far-infrared spectroscopy of quantum Hall systems*

Mailly, D., **TD.1**, FB.5
Main, P.C., MP.10, TB.4, **TC.1**, TP.19, TP.23
Makarovsky, O., **MP.10**
Malyarenko, A.M., RA.3
Malzer, S., MP.76, TP.69, RP.21
Manghi, F., RP.26
Mani, R.G., **TP.67**
Manolescu, A., MP.3
Maranowski, K.D., TC.2, TD.4, TP.35
Marchishin, I.V., RP.37
Mareš, J.J., **RP.71**
Mariette H., RP.17
Marinescu, D.C., **TP.54**
Markoš, P., MP.32
Marrows, C.H., TP.19, TP.23
Marsal, L., RP.17
Martinez, G., MP.42, MP.70
Mason, N.J., TP.56, TP.58, TP.60
Mathur, H., TP.1
Matsukura, F., **WA.2**
Matsuyama, T., RC.2
Maude, D.K., MP.70, TB.4, TP.30, TP.60, WA.4, RA.2, RP.37
Maximov, S., RP.73
McCann, E., **RP.8**, RP.69
McCombe, B.D., MB.2, MB.3, **MP.24**, **WA.3**
McEuen, P.L., RP.5
Medeiros-Ribeiro, G., MC.5, RP.19
Meier, G., RC.2
Meinel, I., MP.38
Meining, C.J., MB.2, MB.3
Mellor, C.J., TP.47, TP.48
Méndez-Bermúdez, J.A., TP.28
Merkt, U., MP.33, **RC.1**, RC.2
Meulen, van der, H.P., *see* van der Meulen, H.P.
Meyer, Chr., MP.38, **TC.3**, TP.77
Micolich, A.P., **RP.72**
Middleton, J.R., TP.48
Mikhailov, S.A., RP.20, **RP.24**
Mikhailova, M.P., TP.46
Milošević, I., **RP.4**
Mirlin, A.D., **MP.25**, TP.32, RP.65
Mishima, A., **RP.9**
Mishima, T., MP.51
Mitamura, T., MP.55
Mitin, V.V., **MP.78**, TP.17
Mitzkus, C., **TP.29**
Miura, N., MP.51
Miyashita, S., TD.5
Mizusaki, T., TP.12
Moiseev, K.D., TP.46
Molenkamp, L.W., TP.78, WB.3, RP.60, RP.73
Molinari, E., RP.26, RP.29
Monarkha, Yu.P., TP.3
Monsoo Kang, *see* Kang, Monsoo
Montambaux, G., TD.1
Mooney, K., WA.3
Morgenstern, M., **MP.38**, TC.3, TP.77
Morikami, Y., WB.4
Morita, K., MP.9
Moshchalkov, V.V., MP.49, MP.69
Moško, M., MP.32
Motte, J.-F., RP.17
Mukasa, K., TP.74
Muñoz, E., TP.16
Muraki, K., MA.2, **MA.3**, TP.66, RP.14
Murase, K., MP.11, MP.65
Murzin, S.S., **MP.13**

Na, M.H., WA.3
Nachtwei, G., **MP.3**, MP.8
Nakae, Y., RP.16
Nakaema, M.K.K., RP.19
Nakata, H., **MP.55**
Narayanamurti, V., TP.67
Naud, C., TD.1
Nauen, A., **RP.55**
Nazarov, Yu.V., RA.4
Nestle, N., MP.3
Neumann, A.C., MP.10, TP.23
Newbury, R., RP.72
Nicholas, R.J., MA.4, MP.44, MP.67, TP.9, TP.56, TP.58, TP.60
Nicholls, J.T., MP.37, RP.76
Nickel, Andy, *see* Nickel, H.A.
Nickel, H.A., **MB.2**, MB.3
Niţă, M., RP.13

Korkusinski, M., RB.3, RP.15
Koschny, T., MP.39
Koshino, M., **TP.51**
Kossacki, P., **WA.1**
Kossut, J., MP.50, MP.54
Kotelnikov, A.S., TB.4
Kotera, N., **MP.51**
Kotthaus, J.P., MP.75, TP.79, RP.40
Král, K., **RP.23**
Krahne, R., **RP.22**
Krauß, J., **TP.79**
Kraus, S., TB.1, **TP.65**
Kravchenko, S.V., **MP.22**, MP.30
Kristensen, A., RP.39
Krištofik, J., RP.71
Krupko, Yu., TP.59
Kubrak, V., TP.23
Kudelski, A., WA.1
Kukushkin, I.V., MP.52, **TA.4**
Kulik, L.V., **MP.52**
Kumada, N., **MA.2**
Kunert, H.W., **MP.53**
Künzel, H., MP.3
Kuraguchi, M., **TP.52**
Kuroda, S., TP.42
Kushwaha, M.S., RP.47
Kutschera, H.J., MB.1
Kvon, Z.D., MC.4, **RP.52**
Kyriakidis, J., RB.3
Kyun-Kwon, Y., RP.1

Lamari, S., **TP.72**
Lambert, C.J., **RC.3**, RP.1
Lang, de, D., *see* de Lang, D.
Langreth, D.C., RP.49
Larionov, A., RP.15
Larkin, I.A., **RP.70**
Latgé, A., MP.56
Launois, H., FB.6
Lawton, D.N., TP.30
Lee, C.-C., TP.70
Lee, C.P., RP.79
Lee, S.J., TP.44, RP.66
Leem, J.Y., TP.70, TP.71
Lefebvre, J., RP.33
Lefloch, F., RP.10
Lehmann, F., WA.3
Leite, J.R., TP.57
Leitenstorfer, A., MP.76
Leroux-Hugon, P., TP.40
LeRoy, B.J., **TC.2**
Leturcq, R., **MP.77**
Levin, A., TC.1
Levin, M., **MP.23**
Lewalle, A., **MC.2**
L'Hote, D., MP.77
Liang, C.-T., MP.37, **TP.11**, TP.70, TP.71
Lin, C.Y., RP.23
Lin, L.-H., MP.29, RP.58
Lin, Y., FB.6
Lindelof P.E., RP.39
Linfield, E.H., RP.63, RP.72, FB.2, FB.6
Linke, H., RP.72
Linnik, T.L., MP.74
Lipparini, E., RP.36
Lister, K., TP.27
Litvin, L.V., RP.37
Liu, J., WB.3
Lok, J.G.S., **TB.1**, TP.65
Long, A.R., **TP.27**
López, R., **TP.53**, RP.53
Loureiro da Silva, L., TP.43
Lozovik, Yu.E., TP.49
Lumpkin, N.E., MP.31
Luna-Acosta, G.A., **TP.28**
Luo, H., WA.3
Luryi, S., TP.33
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Maan, J.C., MP.27, RP.64, FB.7
MacDonald, A.H., MA.1, MP.4, MP.5, TP.41
Machida, T., **TP.66**
Macintyre, D.S., TP.19
Maćkowski, S., **MP.54**
Macks, L.D., RP.63, RP.72
Mahalu, D., RB.2, RP.51

MP.9 K. Morita, S. Nomura, H. Tanaka, H. Kawashima and S. KAWAJI: *Current polarity characteristics in breakdown of the integer quantum Hall effect in GaAs/AlGaAs heterostructures*

MP.10 O. MAKAROVSKY, A.C. Neumann, L.A. Dickinson, L. Eaves, P.C. Main, M. Henini, S. Thoms, and C.D.W. Wilkinson: *Quantum Hall effect breakdown: Can the bootstrap heating and inter-Landau-level scattering models be reconciled?*

MP.11 K. OTO, T. Sanuki, S. Takaoka, K. Murase, and K. Gamo: *Two types of breakdown of quantum Hall effect depending on the electron density fluctuation*

MP.12 M. HUBER, M. Grayson, M. Rother, R.A. Deutschmann, W. Biberacher, W. Wegscheider, M. Bichler and G. Abstreiter: *Tunneling in the quantum Hall regime between orthogonal quantum wells*

MP.13 S.S. MURZIN, M. Weiss, A.G.M. Jansen and K. Eberl: *Quantum Hall effect in a layer with a three-dimensional electron spectrum*

MP.14 G. Schwarz, E. Schöll, V. NOVÁK, and W. Prettl: *Streamer motion in Hall effect Corbino geometries*

MP.15 M.P. SCHWARZ, D. Grundler, H. Rolff, M. Wilde, S. Groth, Ch. Heyn, and D. Heitmann: *De Haas-van Alphen effect in a two-dimensional electron system*

MP.16 E.E. TAKHTAMIROV and V.A. Volkov: *Reduced symmetry of heterointerfaces and orientational pinning of quantum Hall stripe phase*

MP.17 M. TAUT: *Wigner crystallization in a magnetic field: single electrons versus electron pairs at the lattice sites*

MP.18 D. YOSHIOKA and N. Shibata: *DMRG study of the ground state at higher Landau levels – stripes, bubbles and the Wigner crystal*

MP.19 V. DOBROSAVLJEVIĆ and A.A. Pastor: *Glassy behavior of electrons as a precursor to the localization transition*

MP.20 V. KAGALOVSKY, B. Horovitz and Y. Avishai: *Random matrix theory and metal-insulator transition in disordered superconductors*

MP.21 H. KOBORI, N. Hatta, M. Kawaguchi and T. Ohyama: *Magnetic-field-induced two- to three-dimensional transition in weak localization and weak anti-localization regimes for In_2O_{3-x} thin films*

MP.22 M. Rahimi, M.R. Sakr, S.V. KRAVCHENKO: *Fate of the extended states in a vanishing magnetic field: The role of spins in strongly-interacting 2D electron systems*

MP.23 M. LEVIN, Lu Tie-Cheng, I. Shlimak, V. Ginodman, L. Resnick, V. Sandomirskii, K.-J. Friedland and R. Hey: *Metallic like conductivity in low density Si-δ-doped GaAs induced by Schottky-gates covering the mesa edge*

MP.24 T. Yeo, B.D. MCCOMBE, B.M. Ashkinadze and L.N. Pfeiffer: *Metal-insulator transition of spatially separated electrons and holes in mixed type I-type II GaAs/AlAs quantum wells*

MP.25 I.V. Gornyi, A.D. MIRLIN and P. Wölfle: *Current correlations and quantum localization in a random or homogeneous magnetic field*

MP.26 S. Bogdanovich and D. POPOVIĆ: *Glass transition in a two-dimensional electron system in silicon*

MP.27 C. POSSANZINI, L. Ponomarenko, D. de Lang, A. de Visser, S.M. Olsthoorn, R. Fletcher, Y. Feng, P.T. Coleridge, R.L. Williams and J.C. Maan: *Scaling behavior of metal-insulator transitions in a Si/SiGe two-dimensional hole gas*

MP.28 A.L.C. Pereira and P.A. SCHULZ: *Extended state floating up in a lattice model: Bona fide levitation fingerprints, irrespective of the correlation length*

MP.29 A. SHAILOS, C. Prasad, M. Elhassan, J.P. Bird, R. Akis, D.K. Ferry, L.H. Lin, N. Aoki, Y. Ochiai, K. Ishibashi and Y. Aoyagi: *Non-weak-localization signature in the average conductance of open quantum-dot arrays*

MP.30 A.A. SHASHKIN, S.V. Kravchenko, V.T. Dolgopolov and T.M. Klapwijk: *Possible ferromagnetic instability in a dilute 2D electron system*

MP.31 C.E. Yasin, M.Y. SIMMONS, A.R. Hamilton, N.E. Lumpkin, R.G. Clark, L.N. Pfeiffer and K.W. West: *The fate of quantum Hall extended states as $B \to 0$ and the possibility of a 2D metal*

MP.32 P. VAGNER, M. Moško, P. Markoš and T. Schäpers: *Dephasing of coherent 1D transport in a disordered wire*

MP.33 K. BUTH, M. Widmann, U. Merkt, E. Batke and K. Eberl: *Percolation of quantum Hall droplets in intentionally disordered GaAs/GaAlAs heterojunctions*

MP.34 A. DAVYDOV, N.K. Chumakov, B. Aronzon, A. Vedeneev, D. Bakaushin: *Quantisation of the tunneling electron transport in percolating quasi-2D semiconductor structures: The temperature dependence*

MP.35 D.T.N. DE LANG, L. Ponomarenko, A. de Visser, C. Possanzini, S.M. Olsthoorn and A.M.M. Pruisken: *Evidence for a quantum Hall insulator in an InGaAs/InP heterostructure*

MP.36 F. HOHLS, U. Zeitler and R.J. Haug: *Variable-range hopping in the quantum Hall regime*

MP.37 GIL-HO KIM, J.T. Nicholls, C.-T. Liang, D.A. Ritchie, and S.I. Khondaker: *Insulator--quantum Hall liquid transitions in a two-dimensional electron gas using self-assembled InAs dots*

MP.38 M. MORGENSTERN, D. Haude, Chr. Meyer, I. Meinel and R. Wiesendanger: *Two-dimensional properties of a three-dimensional electron system in the extreme quantum limit*

MP.39 T. Koschny and L. SCHWEITZER: *Influence of correlated disorder potentials on the levitation of current carrying states in the quantum Hall effect*

MP.40 U. Zülicke, E. SHIMSHONI: *Localization of the Hall resistivity at high magnetic fields: Absence of the quantized Hall insulator*

MP.41 B.M. ASHKINADZE, V. Voznyy, E. Cohen, Arza Ron and V. Umansky: *Magnetic field induced evolution from bulk exciton to 2DEG – free hole luminescence in modulation doped heterojunctions*

MP.42 C. BARDOT, M. Potemski, G. Martinez, A. Riedel, R. Hey and K.J. Friedland: *Intrinsic magneto-photoluminescence of a two-dimensional electron gas with high concentration and mobility in a symmetric quantum well*

Iye, Y., TD.2, TP.22, **TP.24**, TP.34
Izrailev, F.M., TP.28
Izumida, W., RB.4

Jager, D., RP.75
Jäggi, R., MC.5
Jansen, A.G.M., *see* Jansen, L.
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Jantsch, W., **WB.6**
Jaroszyński, J., **MC.3**, TP.39, WA.4
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Jungwirth, T., **MA.1**, TP.41, TP.59
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Kagalovsky, V., **MP.20**
Kainz, J., **RP.20**
Kalameitsev, A.V., MB.1, TP.79, RP.43
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Kalugin, N.G., **MP.8**
Kang, Monsoo, **TA.2**
Kangler, W., TP.29
Kapon, E., TP.33
Kaputkina, N.E., **TP.49**
Karakurt, I., **TP.1**
Karczewski, G., MP.48, MP.50, MP.54, TP.39, TP.40, WA.4
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Kawamura, M., TD.2, RP.12
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Khanin, Yu.N., **RP.68**
Khondaker, S.I., MP.37
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Kibis, O.V., **RP.3**
Kido, G., MP.50, MP.64, TP.42
Kiesel, P., TP.69, RP.32
Kießlich, G., **TP.25**
Kim, D.H., RP.61
Kim, G.-H., TP.70
Kim, Gil-Ho, **MP.37**, TP.71
Kim, H.J., TP.44
Kim, K.W., MP.74
Kim, N.M., TP.44, RP.66
Kim, Y.H., MP.67
Kimura, T., **TP.26**
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Kipp, L., TP.77
Kirpichev, V.E., MP.52
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Klijn, J., TC.3, **TP.77**
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Klockmann, N., RP.7
Klyachkin, L.E., RA.3
Kobori, H., **MP.21**
Koch, J., RP.32
Kochelap, V.A., MP.74
Koga, T., RP.42
Kojima, H., MC.1
Kolorenč, J., **TP.50**
Könemann, J., RP.55, **RP.69**
König, J., **TP.41**
König, P., RP.69
Kopeliovich, A.I., **TP.78**

Grigorieva, I.V., RC.4, RP.64
Grill, R., TP.64
Grossmann, F., RP.2
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Grundler, D., MP.15, RC.2, **RP.7**
Grützmacher, D., MP.77
Gudmundsson, V., RP.22
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Guinea, F., TP.38
Guo, L.J., RP.25
Gurzhi, R.N., TP.78
Gusev, G.M., TP.57
Gustin, C., WB.2
Gutierrez, R., RP.2
Gwinn, E.G., TD.4, TP.35, RP.6

Hackens, B., **WB.2**
Haddad, G.I., TP.17
Hagiwara, M., RP.16
Hai, G.-Q., TP.3
Halperin, B.I., **WB.1**
Hamilton, A.R., MP.31, **TB.5**
Hanna, C.B., TB.5
Hansen, A.E., **RP.39**
Hansen, J.B., RC.2
Hapke-Wurst, I., **TP.75**
Hara, M., **TP.22**
Harada, Y., RP.12
Haruyama, J., **FA.3**
Hasan Zadeh, J., MP.72
Hasebe, K., MP.2
Hasegawa, T., FA.3
Hassan, A.K., WA.4
Hatta, N., MP.21
Haude, D., MP.38, TP.77
Haug, R.J., MP.36, MP.82, TP.10, TP.75, RP.55, RP.69
Hauser, M., TB.1
Hawrylak, P., **MP.48**, RB.3, RP.15
Hayne, M., **MP.49**, MP.69
Heiblum, M., RB.2, **RP.51**
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Heitmann, D., MP.15, RC.2, RP.7, RP.22, RP.28
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Hesselberth, M.B.S., RP.64
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Hill, G., TB.4, RA.2
Hill, R.J.A., TB.4, TC.1
Hinzer, K., RP.15
Hirayama, Y., MA.2, MA.3, MP.65, TB.3
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Hohls, F., **MP.36**, MP.82, RP.55
Holleitner, A.W., **RP.40**
Hong, Jinki, **TP.23**
Hori, H., **RP.16**
Horovitz, B., MP.20
Hu, C.M., **RC.2**
Huang, C.F., TP.11
Huang, H.C., RP.79
Huang, T.-Y., TP.11, TP.70, **TP.71**
Huant, S., **RP.17**
Huber, M., **MP.12**
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Hwang, J.S., RP.18
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Imanaka, Y., **MP.50**, MP.64, TP.42
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Ishibashi, K., MP.29, RP.58
Ishizuka, S., TP.66
Ivanov, D.Yu., TB.4
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MP.43 L.C.O. Dacal and J.A. BRUM: *Effects of an electron gas on the negative trion in semiconductor quantum wells*

MP.44 H.H. CHENG, M.C. Chang and R.J. Nicholas: *Crossing of Landau levels and many-body effect in InGaAs/GaAs single quantum well*

MP.45 S.-J. CHENG and R.R. Gerhardts: *New collective modes in wide quantum wells with in--plane magnetic fields*

MP.46 A. Qarry, R. Rapaport, G. Ramon, E. COHEN, Arza Ron, A. Maan and L.N. Pfeiffer: *Magnetic field effect on the free electron - exciton scattering in GaAs/AlGaAs bare quantum wells and in microcavities*

MP.47 C.A. DUQUE, N. Porras-Montenegro, and L.E. Oliveira: *Terahertz dynamics of magnetoexcitons in semiconductor quantum wells*

MP.48 P. HAWRYLAK, F.J. Teran, M. Potemski, G. Karczewski: *Band-gap renormalization and photoluminiscence from an interacting two-dimensional electron gas in a magnetic field*

MP.49 M. HAYNE, T. Vanhoucke, M. Henini and V.V. Moshchalkov: *Magnetophotoluminescence of positively-charged excitons in GaAs quantum wells*

MP.50 Y. IMANAKA, T. Takamasu, G. Kido, G. Karczewski, T. Wojtowicz and J. Kossut: *Singularity in the magneto-luminescence of II-VI quantum Hall systems around* $\nu = 1$

MP.51 K. Shibata, N. KOTERA, H. Arimoto, N. Miura, Yongjie Wang, E.D. Jones, J.L. Reno, M. Washima, T. Mishima: *Study of band nonparabolicity using electron cyclotron resonance of InGaAs/InAlAs quantum wells below 100 Tesla*

MP.52 L.V. KULIK, I.V. Kukushkin, V.E. Kirpichev, J.H. Smet, K. von Klitzing, V. Umansky, W. Wegscheider: *Cyclotron spin-flip excitations in the 2D-electron system*

MP.53 H.W. KUNERT and J. Barnaś: *Irradiation induced red light emission from GaAs quantum wells*

MP.54 S. MAĆKOWSKI, G. Karczewski, and J. Kossut: *Optical properties of CdTe/ZnTe quantum dot superlattices*

MP.55 H. NAKATA, T. Mitamura, K. Fujii and T. Ohyama: *Radiative recombination of 2DES associated with spin-flip cyclotron excitation in modulation-doped GaAs quantum well*

MP.56 H.S. Brandi, A. Latgé and L.E. OLIVEIRA: *Electron-laser interaction in low-dimensional semiconductor systems within an extended dressed-atom approach*

MP.57 A.S. PLAUT, A. Pinczuk, B.S. Dennis, C.F. Hirjibehedin, L.N. Pfeiffer and K.W. West: *Optical investigation of high-mobility dilute two-dimensional hole gases in GaAs (311)A quantum structures*

MP.58 C. Riva, F.M. PEETERS: *Theory of Trions in quantum wells*

MP.59 V. RYZHII: *Negative differential infrared photoconductivity in quantum-dot structure*

MP.60 D. SCHNEIDER, F. Hitzel, A. Schlachetzki, P. Boensch: *Dependence of electron effective mass on the subband occupation in* $In_{0.53}Ga_{0.47}As/InP$ *quantum wells*

MP.61 N.A. Fromer, C. SCHÜLLER, D.S. Chemla, T.V. Shahbazyan, I.E. Perakis, D. Driscoll and A.C. Gossard: *Femtosecond dynamics of inter-Landau level excitations of a two-dimensional electron gas in the quantum Hall regime*

MP.62 M.R. SINGH and J. Desforges: *Excitons formation from spatially separated electrons and holes in semiconductor nanostructures with disorder*

MP.63 T. SUZUKI: *Novel Hamiltonians to calculate the electronic states in strain fields in the effective mass approximation*

MP.64 T. TAKAMASU, S. Takagi, Y. Imanaka and G. Kido: *Current induced changes of photoluminiscence in the quantum Hall system with different well width samples*

MP.65 H. Aikawa, S. TAKAOKA, K. Oto, K. Murase, T. Saku, Y. Hirayama, S. Shimomura and S. Hiyamizu: *In-plane magnetic field dependence of cyclotron resonance in two-dimensional electron systems*

MP.66 D. Porras, J. Fernández-Rossier and C. TEJEDOR: *Coherent control and four wave-mixing of Fermi edge singularities in doped quantum wells*

MP.67 C.M. TOWNSLEY, Y.H. Kim, R.J. Nicholas, K.A. Prior and B.C. Cavenett: *Anomalous g-factors and diamagnetic shifts of biexcitons in ZnS quantum wells*

MP.68 H.P. VAN DER MEULEN, J.M. Calleja, J. Sanchez, R. Hey, K.J. Friedland and K. Ploog: *Anomalous magneto-optical properties of a two-dimensional electron gas around integer filling factors*

MP.69 T. VANHOUCKE, M. Hayne, M. Henini and V.V. Moshchalkov: *Zeeman splitting and binding energy of negatively-charged excitons in GaAs quantum wells*

MP.70 C. Faugeras, J. ZEMAN, D.K. Maude, M. Potemski, G. Martinez, A. Riedel, R. Hey, K.J. Friedland: *Magneto infrared absorption and polaron coupling in high electron density GaAs quantum well*

MP.71 J. EBBECKE, K. Pierz, F.J. Ahlers: *Influence of the shape of a quasi-one-dimensional channel on the quantized acousto-electric current*

MP.72 S. FARJAMI SHAYESTEH and J. Hasan Zadeh: *Investigation of phonon and surface polaritons modes and plasmon-LO phonon coupling indonor doped and $Cd_xHg_{1-x}Te$ CdTe thin layer on GaAs substrate*

MP.73 R. FLETCHER, M. Tsaousidou, P.T. Coleridge, Y. Feng and Z.R. Wasilewski: *Electron--phonon coupling and phonon drag thermopower of a very low mobility 2DEG*

MP.74 B.A. GLAVIN, V.A. Kochelap, T.L. Linnik, K.W. Kim and M.A. Stroscio: *Generation of high-frequency coherent acoustic phonons in biased superlattices*

MP.75 E.M. HÖHBERGER, R.H. Blick, F.W. Beil, W. Wegscheider, M. Bichler and J.P. Kotthaus: *Magnetotransport in freely suspended two-dimensional electron systems for integrated nanomechanical resonators*

MP.76 M. ECKARDT, A. Schwanhäußer, L. Robledo, S. Malzer, G.H. Döhler, M. Betz, A. Leitenstorfer: *Ballistic high-field transport in mesoscopic confining potentials – observation of THz oscillations in $Al_xGa_{1-x}As$ heterostructures*

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Dickmann, S., **MP.1**
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Dietsche, W., TB.1, TP.65, RA.5
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Doveston, J.B., **TP.47**
Driscoll, D., MP.61
Druist, D.P., **TD.4**, TP.35
Du, R.R., **MB.5**

MP.77 R. LETURCQ, D. L'Hote, R. Tourbot, V. Senz, U. Gennser, T. Ihn, K. Ensslin, G. Dehlinger, D. Grützmacher: *Hole-phonon coupling in Si/SiGe two-dimensional hole systems*

MP.78 D. Romanov, V. MITIN and M. Stroscio: *Polar surface vibration strips on GaN/AlN quantum dots and their interaction with confined electrons*

MP.79 E.E. ONISHCHENKO, V.S. Bagaev, T.I. Galkina, V.V. Zaitsev and A.I. Sharkov: *New method of detection of terahertz acoustic phonons in quantum well structures*

MP.80 M.E. PORTNOI and V.M. Apalkov: *Electron-phonon interaction in a two-subband quasi--2D system in quantizing magnetic field*

MP.81 C. Brink, D. SCHNEIDER, G. Ploner, G. Strasser, E. Gornik: *Magnetophonon resonance in the confinement of an n-GaAs/AlGaAs-heterojunction, tuned to a quasi-one-dimensional quantum wire*

MP.82 F. Schulze-Wischeler, U. ZEITLER, F. Hohls, R.J. Haug, D. Reuter and A.D. Wieck: *Phonon excitation of a two-dimensional electron system around* $\nu = 1$

Tuesday

TA Fractional Quantum Hall Effect *9:00–10:30*

Chair: HIDEO AOKI

TA.1 ***9:00–9:30*** G. YUSA, H. Shtrikman and I. Bar-Joseph: *Photoluminescence in the fractional quantum Hall regime*

TA.2 ***9:30–9:45*** MOONSOO KANG, A. Pinczuk, I. Dujovne, B.S. Dennis, L.N. Pfeiffer, and K.W. West: *Light scattering by magnetorotons of collective excitations in the fractional quantum Hall regime*

TA.3 ***9:45–10:00*** I. Szlufarska, A. WÓJS and J.J. Quinn: *Reversed-spin quasiparticles in fractional quantum Hall systems and their effect on photoluminescence*

TA.4 ***10:00–10:15*** I.V. KUKUSHKIN, J.H. Smet, K. von Klitzing and W. Wegscheider: *Cyclotron resonance of composite fermions*

TA.5 ***10:15–10:30*** M. GRAYSON, D.C. Tsui, L.N. Pfeiffer, K.W. West and A.M. Chang: *Current measurements and the lever-arm model: An intuition for resonant tunneling at a biased fractional quantum Hall edge*

Coffee Break 10:30–11:00

TB Double-Layer Systems *11:00–12:30*

Chair: SEIGO TARUCHA

TB.1 ***11:00–11:30*** J.G.S. LOK, S. Kraus, W. Dietsche, K. von Klitzing, F. Schwerdt, M. Hauser, W. Wegscheider and M. Bichler: *Negative magneto-drag of double layer 2DEGs*

TB.2 ***11:30–11:45*** S.H. Simon, F. VON OPPEN and A. Stern: *Oscillating sign of drag in high Landau levels*

TB.3 ***11:45–12:00*** M. YAMAMOTO, M. Stopa, Y. Tokura, Y. Hirayama and S. Tarucha: *Coulomb drag between quantum wires: Magnetic fields and negative anomaly*

TB.4 ***12:00–12:15*** YU.V. DUBROVSKII, R. Hill, V.A. Volkov, P.C. Main, L. Eaves, V.G. Popov, E.E. Vdovin, D.Yu. Ivanov, D.K. Maude, J.C. Portal, A.S. Kotelnikov, M. Henini and G. Hill: *Magnetic field induced linear Coulomb gap in tunnelling between disordered two--dimensional electron systems*

TB.5 ***12:15–12:30*** A.R. HAMILTON, M.Y. Simmons, C.B. Hanna, J.C. Díaz-Vélez, M. Pepper and D.A. Ritchie: *Exchange-driven bilayer-to-monolayer charge transfer in an asymmetric double-quantum-well*

Lunch Break *12:30–14:00*

TC Real Space and *k*-Space Mapping ***14:00–15:30***

Chair: ANDRE GEIM

TC.1 ***14:00–14:30*** P.C. MAIN, A. Patanè, R.J.A. Hill, A. Levin, L. Eaves, M. Henini, D.G. Austing, S. Tarucha, Yu.V. Dubrovskii and E.E. Vdovin: ***Mapping the wave functions in quantum dots***

TC.2 ***14:30–15:00*** M.A. TOPINKA, B.J. LEROY, R.M. Westervelt, K.D. Maranowski and A.C. Gossard: *Imaging coherent electron wave flow in a two-dimensional electron gas*

TC.3 ***15:00–15:15*** CHR. MEYER, J. Klijn, M. Morgenstern and R. Wiesendanger: *Local density of states of a one dimensional conductor confined below a charged step edge*

TC.4 ***15:15–15:30*** R. CROOK, C.G. Smith, M.Y. Simmons and D.A. Ritchie: *Imaging electrostatic microconstrictions in long 1D wires*

Coffee Break *15:30–16:00*

TD Transport in Periodic Structures ***16:00–17:30***

Chair: JOSE A. BRUM

TD.1 ***16:00–16:30*** C. Naud, G. Faini, D. MAILLY, J. Vidal, B. Douçot, G. Montambaux, A. Wieck, D. Reuter: ***Aharonov-Bohm cages in the GaAlAs/GaAs system***

TD.2 ***16:30–16:45*** A. ENDO, M. Kawamura, S. Katsumoto, Y. Iye: *Magnetotransport of unidirectional lateral superlattice around half-odd filling of Landau levels*

TD.3 ***16:45–17:00*** R.A. Deutschmann, W. WEGSCHEIDER, M. Rother, M. Bichler and G. Abstreiter: *Miniband transport in vertical superlattice field effect transistors*

TD.4 ***17:00–17:15*** D.P. DRUIST, E.G. Gwinn, K.D. Maranowski and A.C. Gossard: *Tilted field effects in quantum Hall multilayers*

TD.5 ***17:15–17:30*** T. ASAYAMA, Y. Tokura, S. Miyashita, M. Stopa and S. Tarucha: *1D Bragg reflector in the Tomonaga-Luttinger liquid regime and Fermi liquid regimes*

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RP.76 K.J. THOMAS, J.T. Nicholls, W.R. Tribe, M.Y. Simmons, D.A. Ritchie and M. Pepper: *Effect of temperature and magnetic field on the 0.7 structure in a ballistic one-dimensional wire*

RP.77 Y. TOKURA and A. Khaetskii: *Towards a microscopic theory of the 0.7 anomaly*

RP.78 K. UENO, M. Eto and K. Kawamura: *Interband scattering at metallic nano-junctions*

RP.79 O. VOSKOBOYNIKOV, H.C. Huang, C.P. Lee and O. Tretyak: *Spin dependent electron scattering from quantum dots and antidots in twodimensional channels*

Friday

FA Carbon Nanotubes *9:00–10:15*

Chair: FRANCOIS PEETERS

FA.1 ***9:00–9:30*** C. SCHÖNENBERGER: ***Quantum and interaction effects in electron transport of carbon nanotubes***

FA.2 ***9:30–10:00*** H. PARK: ***Transport and scanned probe investigations on carbon nanostructures***

FA.3 ***10:00-10:15*** J. HARUYAMA, I. Takesue and T. Hasegawa: *Anti-localization caused by slight doping of heavy-mass impurities in carbon nanotubes and a novel spintronics device*

Coffee Break *10:15–10:45*

FB Noise and Transport in Small Structures *10:45–12:15*

Chair: CHRISTOPHER J.B. FORD

FB.1 ***10:45–11:00*** S. OBERHOLZER, E.V. Sukhorukov and C. Schönenberger: *Shot noise by quantum scattering in chaotic cavities*

FB.2 ***11:00–11:15*** S.H. ROSHKO, S.S. Safonov, A.K. Savchenko, W.R. Tribe and E.H. Linfield: *Suppressed shot noise in 1D and 2D electron transport via localized states*

FB.3 ***cancelled*** R. DE PICCIOTTO, H.L. Stormer, L.N. Pfeiffer, K.W. Baldwin and K.W. West: *Probing the interior of a ballistic quantum wire*

FB.4 ***11:15–11:30*** L. WORSCHECH, S. Reitzenstein, M. Kesselring, A. Schliemann and A. Forchel: *Coherent and ballistic switching effects in GaAs/AlGaAs nanojunctions*

FB.5 ***11:30–11:45*** M. KATAOKA, C.J.B. Ford, G. Faini, D. Mailly, M.Y. Simmons, and D.A. Ritchie: *Spin-splitting of Aharonov-Bohm oscillations in an antidot*

FB.6 ***11:45–12:00*** C.G. SMITH, S. Gardelis, J. Cooper, D.A. Ritchie, E.H. Linfield, Y. Lin and H. Launois: *Detection of electron scattering times in an isolated double quantum dot system*

FB.7 ***12:00–12:15*** K.S. NOVOSELOV, A.K. Geim, S.V. Dubonos, Y.G. Cornelissens, F.M. Peeters and J.C. Maan: *Quenching of the Hall effect in localised high magnetic field region*

Break *17:30–19:30*

Elsevier Open (Bar) Session *20:30–22:30*

(During The Poster Session in Kajetánka)

TP Tuesday/Posters *19:30–22:00*

TP.1 I. KARAKURT, D. Herman, H. Mathur and A.J. Dahm: *Damping of weak localization of electrons on helium*

TP.2 YU.G. RUBO and M.I. Dykman: *Nonlinear friction for a 2D Wigner crystal above helium surface*

TP.3 Yu.P. Monarkha, S.S. SOKOLOV, G.-Q. Hai and N. Studart: *Channel magnetotransport of surface electrons on superfluid helium*

TP.4 J.A.K. Freire, N. STUDART, F.M. Peeters, G.A. Farias and V.N. Freire: *Magnetic confinement of electrons into quantum wires and dots on a liquid helium surface*

TP.5 P.D. Ye, L.W. ENGEL, D.C. Tsui, J.A. Simmons, J.R. Wendt, G.A. Vawter and J.L. Reno: *Microwave conductivity of antidot array in regime of fractional quantum Hall effect*

TP.6 M. GELLER: *Instantons and tunneling into strongly correlated conductors*

TP.7 K. SHIZUYA: *Effective vector-field theory and long-wavelength universality of the fractional quantum Hall effect*

TP.8 A. WÓJS and J.J. Quinn: *Electron correlations in a partially filled first excited Landau level*

TP.9 R. CHUGHTAI, V. Zhitomirsky, R.J. Nicholas and M. Henini: *Measurements of the composite fermion masses and g-factors from the spin polarization of 2-D electrons in the region* $1 > \nu > 2$

TP.10 S.I. DOROZHKIN, J.H. Smet, K. von Klitzing, V. Umansky, W. Wegscheider, R.J. Haug and K. Ploog: *Measurements of the compressibility of the composite fermion metallic state in a 2D electron system*

TP.11 Y.-M. Cheng, T.-Y. Huang, C.-T. Liang, M.Y. SIMMONS, C.F. Huang, C.G. Smith, D.A. Ritchie and M. Pepper: *Experimental studies of composite fermion conductivity dependence on carrier density*

TP.12 M. ONODA, T. Mizusaki, and H. Aoki: *How heavy and how strongly interacting are composite fermions?*

TP.13 W. PAN, H.L. Stormer, D.C. Tsui, L.N. Pfeiffer, K.W. Baldwin and K.W. West: *New fractional quantum Hall features in a high quality quantum well sample*

TP.14 P. SITKO: *Exclusion statistics of composite fermions*

TP.15 M. TSAOUSIDOU and G.P. Triberis: *Phonon-drag thermopower of composite fermions at filling factor 3/2*

TP.16 E. Muñoz, Z. BARTICEVIC, M. Pacheco: *Two-dimensional array of quantum dots in the presence of electric and magnetic fields in the Hall configuration*

TP.17 Z.S. Gribnikov, R.R. BASHIROV, H. Eisele, V.V. Mitin and G.I. Haddad: *Electron dispersion relations with negative effective masses in quantum wells grown on the cleaved edge of a superlattice*

TP.18 W. BREUER, D. Weiss and V. Umansky: *Commensurability effects in two-dimensional electron gases with periodically arranged Ni and NiFe nanopillars*

TP.19 K.W. EDMONDS, B.L. Gallagher, P.C. Main, A. Nogaret, M. Henini, C.H. Marrows and D.S. Macintyre: *Magnetoresistance oscillations in a periodic magnetic field due to internal Landau band structure*

TP.20 J. EROMS, M. Tolkiehn, D. Weiss, U. Rössler, J. de Boeck and S. Borghs: *Chaotic motion and suppression of commensurability effects in an Andreev antidot billiard*

TP.21 R.R. GERHARDTS and S.D.M. Zwerschke: *Magnetoresistance in rectangular superlattices: Guiding-center approach to commensurability oscillations*

TP.22 M. HARA, A. Endo, S. Katsumoto and Y. Iye: *Magnetotransport in 2DEG with magnetic barriers*

TP.23 JINKI HONG, V. Kubrak, K.W. Edmonds, A.C. Neumann, B.L. Gallagher, P.C. Main, M. Henini, C.H. Marrows, B.J. Hickey and S. Thoms: *Quasi-ballistic transport of 2D electrons through magnetic barriers*

TP.24 Y. IYE, A. Endo, S. Katsumoto, Y. Ohno, S. Shimomura and S. Hiyamizu: *Magnetotransport in ultrashort period unidirectional lateral superlattices*

TP.25 G. KIESSLICH, A. Wacker and E. Schöll: *Sequential tunneling through an array of electrostatically coupled quantum dots*

TP.26 T. KIMURA, H. Tamura, K. Shiraishi and H. Takayanagi: *Magentic field effects on the ferromagnetism and transport properties of Kagome dot superlattices*

TP.27 S. Chowdhury, A.R. LONG, J.H. Davies, K. Lister, and E. Skuras: *Inverse flux quantum periodicity in the amplitudes of Weiss oscillations in two-dimensional lateral surface superlattices*

TP.28 G.A. LUNA-ACOSTA, J.A. Méndez-Bermúdez, and F.M. Izrailev: *Chaotic electron motion in superlattices. Quantum-classical correspondence of the structure of eigenstates and LDOS*

TP.29 C. MITZKUS, W. Kangler, D. Weiss, V. Umansky and W. Wegscheider: *Anomalous temperature dependence of commensurability oscillations in one- and two-dimensional lateral superlattices*

TP.30 A. Nogaret, D.N. Lawton, D.K. Maude, J.C. PORTAL and M. Henini: *Magnetic waveguiding in tilted magnetic fields*

TP.31 C. PACHER, G. Strasser and E. Gornik: *Optics with ballistic electrons: Anti-reflection coatings for GaAs/AlGaAs superlattices*

TP.32 F. Evers, A.D. MIRLIN, D.G. Polyakov and P. Wölfle: *Magnetotransport in a random array of antidots*

RP.57 E.V. SUKHORUKOV: *Noise of a quantum-dot system in the cotunneling regime*

RP.58 R. Akis, M. Elhassan, J.P. BIRD, A. Shailos, C. Prasad, D.K. Ferry, L.-H. Lin, N. Aoki, Y. Ochiai, K. Ishibashi and Y. Aoyagi: *Molecular states in quantum-dot arrays*

RP.59 T. BLOMQUIST and I.V. Zozoulenko: *Magnetoconductance fluctuations and weak localization in quantum dots: Reliability of the semiclassical approach*

RP.60 H. BUHMANN and L.W. Molenkamp: *1D diffusion: A novel transport regime in narrow 2DEG channels*

RP.61 B.H. CHOI, Y.S. Yu, S.H. Son, S.W. Hwang, D. Ahn, D.H. Kim and B.G. Park: *Double-dot like charge transport in silicon single electron transistor*

RP.62 S.G. CHUNG: *Superconductor-insulator transition in a single Josephson junction*

RP.63 S.J. GEER, A.G. Davies, C.G. Smith, L.D. Macks, W.R. Tribe, E.H. Linfield and D.A. Ritchie: *Investigation of an open quantum dot with a Coulomb blockade quantum dot detector*

RP.64 I.V. Grigorieva, A.K. GEIM, S.V. Dubonos, K.S. Novoselov, J.C. Maan, M.B.S. Hesselberth and P.H. Kes: *Mesoscopic fluctuations of the critical field in submicron superconducting wires*

RP.65 I.V. GORNYI and A.D. Mirlin: *Wave function correlations on the ballistic scale: From quantum disorder to quantum chaos*

RP.66 H.-S. SIM, G. Ihm, N. Kim, S.J. Lee and K.J. Chang: *Edge-channel transport through quantum wires with a magnetic quantum dot*

RP.67 T. INOSHITA: *Theory of quantum mirage in elliptic billiards*

RP.68 YU.N. KHANIN, E.E. Vdovin, L. Ponomarenko and K.S. Novoselov: *Resonant tunnelling via states of the X-related donors located at different atomic layer in AlAs barrier*

RP.69 J. KÖNEMANN, P. König, E. McCann, V.I. Fal'ko, R.J. Haug: *Correlations in the local density of states probed by single electron tunneling*

RP.70 I.A. LARKIN, J.H. Jefferson and A.V. Vagov: *Ballistic transport of electrons in a long single-mode 1-D channel*

RP.71 J.J. MAREŠ, J. Krištofik, P. Hubík: *Ohm–Kirchhoff's law and screening in two-dimensional electron liquid*

RP.72 A.P. MICOLICH, R.P. Taylor, A.G. Davies, T.M. Fromhold, R. Newbury, A. Ehlert, L.D. Macks, W.R. Tribe, H. Linke, E.H. Linfield and D.A. Ritchie: *The dependence of fractal conductance fluctuations on soft-wall profile in a double-2DEG billiard*

RP.73 E.G. NOVIK, H. Buhmann, S. Maximov, and L.W. Molenkamp: *Electron-wave diffraction by density inhomogeneities in two-dimensional electron gas*

RP.74 E.R. RACEC, U. Wulf and P.N. Racec: *Fano resonances in quantum transport through semiconductor nanostructures*

RP.75 M.M. SHABAT, H.M. Fayad, H.M. Khalil and D. Jager: *Electronic conductance of quantum wire structures*

RP.38 A. FUHRER, S. Lüscher, T. Heinzel, T. Ihn, K. Ensslin, W. Wegscheider, and M. Bichler: *h/e-periodic oscillations of conductance peak height and position in quantum rings in the Coulomb blockade regime*

RP.39 A.E. HANSEN, A. Kristensen, S. Pedersen, C.B. Sørensen, and P.E. Lindelof: *Decoherence in Aharonov-Bohm rings*

RP.40 A.W. HOLLEITNER, H. Qin, R.H. Blick, K. Eberl and J.P. Kotthaus: *Aharonov-Bohm oscillations for charge transport through two parallel quantum dots*

RP.41 Z. Xie and S.A. LYON: *4-terminal reflection and transmission in an Aharonov-Bohm ring*

RP.42 J. NITTA, T. Koga, and H. Takayanagi: *Interference of Aharonov-Bohm ring structures affected by spin-orbit interaction*

RP.43 S.E. ULLOA, A.O. Govorov, A.V. Kalameitsev, R. Warburton and K. Karrai: *Magneto-excitons in quantum-ring structures: a novel magnetic interference effect*

RP.44 JENG-BANG YAU, E.P. De Poortere and M. Shayegan: *Observation of Berry's phase in Aharonov-Bohm oscillations in GaAs 2D holes*

RP.45 J. Rubio, C. Pascual, A. Pinczuk, B.S. Dennis, L.N. Pfeiffer, K.W. West and J.M. CALLEJA: *Optical study of the one-dimensional electron gas in cleaved-edge-overgrown semiconductor quantum wires*

RP.46 S. Calderon, O. Kadar and A. SAAR: *Optically induced intersubband transitions in V--groove quantum wires*

RP.47 P. VASILOPOULOS and M.S. Kushwaha: *Magnetic-field enhancement of the current instability in field-effect transistors*

RP.48 D. Boese, M. Governale, A. Rosch, U. ZÜLICKE: *Magnetotunneling between parallel quantum wires: From coherent oscillations to spin-charge separation*

RP.49 R. AGUADO and D.C. Langreth: *Out-of-equilibrium Kondo effect in coupled quantum dots*

RP.50 A.L. CHUDNOVSKIY and S.E. Ulloa: *Kondo effect in a two-level quantum dot coupled to an external fermionic reservoir*

RP.51 D. Sprinzak, Yang Ji, M. HEIBLUM, D. Mahalu, H. Shtrikman: *Charge distribution in a Kondo correlated quantum dot*

RP.52 Z.D. KVON, O. Estibals, A.Y. Plotnikov, J.C. Portal, A.I. Toropov and J.L. Gauffier: *Manifestation of spin-charge separation in small open quantum dot*

RP.53 R. López, R. Aguado, G. PLATERO and C. Tejedor: *Transport in quantum dots in the Kondo regime under the influence of an AC potential*

RP.54 O.M. BULASHENKO, J.M. Rubí: *Shot noise as a tool to probe an electron energy distribution*

RP.55 A. NAUEN, J. Könemann, U. Zeitler, F. Hohls, R.J. Haug: *Shot noise in tunneling through single localized states*

RP.56 V. RODRIGUEZ, P. Roche, D.C. Glattli, Y. Jin and B. Etienne: *Super poissonian noise in the FQHE regime*

TP.33 A. TSUKERNIK, M. Karpovski, A. Palevski, V.J. Goldman, S. Luryi, A. Rudra, E. Kapon: *The role of spin polarization on the quantum Hall effect in 2DEG with periodically modulated filling factor*

TP.34 J. WAKABAYASHI, Y. Tsuzuki, A. Endo and Y. Iye: *Resonance-like giant magnetotransport anomaly in GaAs/AlGaAs heterostructures with a single Ni dot*

TP.35 H.A. WALLING, D.P. Dougherty, D.P. Druist, E.G. Gwinn, K.D. Maranowski and A.C. Gossard: *Temperature dependence of vertical transport in quantum Hall multilayers*

TP.36 J. WIERSIG and K.-H. Ahn: *Mode-locking in a periodic array of scatterers*

TP.37 V.K. Dugaev and J. BARNAŚ: *Large enhancement of the interaction coupling in magnetic layered structures*

TP.38 L. BREY and F. Guinea: *Phase separation in diluted magnetic semiconductor quantum wells*

TP.39 T. Andrearczyk, J. Jaroszyński, G. Karczewski, J. Wróbel, T. Wojtowicz and T. DIETL: *Effects of spin polarization on electron transport in modulation doped $Cd_{1-x}Mn_xTe/Cd_{1-y}Mg_yTe$:I heterostructures*

TP.40 B. JUSSERAND, G. Karczewski, G. Cywinski, T. Wojtowicz, C. Testelin, C. Rigaux, P. Leroux-Hugon and M. El Kurdi: *Spin flip excitations of mobile electrons in modulation doped semimagnetic quantum wells*

TP.41 J. KÖNIG, J. Schliemann, T. Jungwirth, A.H. MacDonald: *Collective spin fluctuations in diluted magnetic semiconductors*

TP.42 F. TAKANO, S. Kuroda, K. Takita, T. Takamasu, Y. Imanaka and G. Kido: *Magnetoresistance of two-dimensional electrons in modulation-doped $Cd_{1-x}Mn_xTe/Cd_{1-y}Mg_yTe$ SQWs : The variation with carrier concentration*

TP.43 X.F. WANG, L. Loureiro da Silva, M.A. Boselli, and I.C. da Cunha Lima: *Mobility of spin-polarized holes in GaMnAs multilayers*

TP.44 H.J. Kim, K.S. YI, N.M. Kim, S.J. Lee and J.J. Quinn: *Finite temperature study of a modulation-doped DMS quantum well with broken spin symmetry*

TP.45 E. ANISIMOVAS: *Tunneling spectroscopy of modulated two-dimensional electron systems*

TP.46 V.A. BEREZOVETS, M.P. Mikhailova, K.D. Moiseev, R.V. Parfeniev, Yu.P. Yakovlev and V.I. Nizhankovskii: *e-h magnetotransport in a type II broken-gap GaInSbAs/InAs single heterojunctions*

TP.47 J.B. DOVESTON, S. Djordjevic, R.B. Dunford, C.J. Mellor, F.I.B. Williams, M. Henini: *Microwave and transport studies of the magnetically-induced insulating phase of bilayer hole systems*

TP.48 R.B. DUNFORD, M.R. Gates, C.J. Mellor, V.W. Rampton, J.S. Chauhan, J.R. Middleton and M. Henini: *The acoustoelectric effect in double layer AlGaAs/GaAs 2D hole systems*

TP.49 N.E. KAPUTKINA and Yu.E. Lozovik: *Two-dimensional exciton with spatially-separated carriers in coupled quantum wells in external magnetic field*

TP.50 J. KOLORENČ, L. Smrčka, P. Středa: *Longitudinal conductivity and transverse charge redistribution in coupled quantum wells subject to in-plane magnetic fields*

TP.51 M. KOSHINO, H. Aoki and T. Osada: *Field-induced SDW and integer quantum Hall effect in anisotropic three-dimensional electron systems*

TP.52 M. KURAGUCHI, E. Ohmichi, T. Osada and Y. Shiraki: *Relationship between Stark--cyclotron resonance and angular dependent magnetoresistance oscillations*

TP.53 R. LÓPEZ, D. Sánchez and G. Platero: *Photoassisted dynamical transport in multiple quantum wells*

TP.54 D.C. MARINESCU, J.J. Quinn and G.F. Giuliani: *Quasiparticle lifetime in a bilayer system*

TP.55 T. OSADA: *Resonant tunneling tuned by magnetic field orientations in anisotropic multilayer systems*

TP.56 C. PETCHSINGH, R.J. Nicholas, K. Takashina, N.J. Mason, P.J. Walker and J. Zeman: *Mass enhancement and electron-hole coupling studied by cyclotron resonance in InAa/GaSb bilayers*

TP.57 YU.A. PUSEP, G.M. Gusev, A.J. Chiquito, A.K. Bakarov, A.I. Toropov, J.R. Leite: *2DEG formed by magnetic field in superlattices*

TP.58 T.O. STADELMANN, B. Kardynal, R.J. Nicholas, K. Takashina and N.J. Mason: *Magneto-transport studies of antidot superlattices in coupled two-dimensional electron-hole gases*

TP.59 P. SVOBODA, Yu. Krupko, L. Smrčka, M. Cukr, T. Jungwirth, L. Jansen: *Novel critical field in magneto-resistance oscillation of 2DEG in asymmetric GaAs/$Al_{0.3}Ga_{0.7}$As double wells measured as a function of the in-plane magnetic field*

TP.60 K. TAKASHINA, R.J. Nicholas, B. Kardynal, N.J. Mason, D.K. Maude and J.C. Portal: *The quantum Hall effect in an InAs/GaSb based electron-hole system and its current-driven breakdown*

TP.61 B. TANATAR: *Charge and spin density excitations in double-layer systems with tunneling*

TP.62 J. VILLAVICENCIO and R. Romo: *Buildup dynamics and tunneling response in double barrier resonant structures*

TP.63 V.I. YUDSON: *Anisotropic conductance of quasi-two-dimensional electron gas in parallel magnetic field*

TP.64 M. ZVÁRA, R. Grill, P. Hlídek, M. Orlita and J. Soubusta: *Photoluminescence of biased GaAs/Al_xGa_{1-x}As double quantum wells – many-body effects*

TP.65 S. KRAUS, J.G.S. Lok, W. Dietsche, K. von Klitzing, W. Wegscheider, and M. Bichler: *Finite wavevector scattering on the $\nu = 2/3$ huge longitudinal resistance*

TP.66 T. MACHIDA, S. Ishizuka and K. Muraki: *Spin polarization in fractional quantum Hall edge channels*

TP.67 R.G. MANI, W.B. Johnson, V. Narayanamurti, V. Privman and Y.-H. Zhang: *Nuclear spin based memory and logic in quantum Hall semiconductor nanostructures for quantum computing applications*

RP.20 J. KAINZ, S.A. Mikhailov, A. Wensauer and U. Rössler: *Ground state energies of quantum dots in high magnetic fields: A new approach*

RP.21 V.V. KHORENKO, H. Plagwitz, S. Malzer, C. Bock, K.H. Schmidt, E. Khorenko and G.H. Döhler: *Controlled electron and hole injection in InAs self assembled quantum dot layers*

RP.22 R. KRAHNE, V. Gudmundsson, Ch. Heyn and D. Heitmann: *Inter-dot interaction in an array of elliptical quantum dots*

RP.23 K. KRÁL, Z. Khás, P. Zdeněk, M. Čerňanský and C.Y. Lin: *Relaxation of electron energy in polar semiconductor double quantum dot*

RP.24 S.A. MIKHAILOV: *Few-electron quantum dots and disks in zero magnetic field: Possible indications on a liquid-solid transition*

RP.25 L.P. ROKHINSON, L.J. Guo, S.Y. Chou and D.C. Tsui: *Few electrons small Si quantum dots: Anomalous peak doublet*

RP.26 M. RONTANI, G. Goldoni, F. Manghi, and E. Molinari: *Structural transitions in Wigner molecules: Ground-state properties and Raman spectroscopy*

RP.27 D. SÁNCHEZ, L. Brey and G. Platero: *Canted phase in artificial molecules*

RP.28 P. SCHRÖTER, K.-B. Broocks, C. Schüller, C. Steinebach, Ch. Heyn, and D. Heitmann: *Magneto-luminescence on arrays with small numbers of modulation-doped quantum dots: Evidence for a zero-dimensional density of states and a magnetic field-dependent dot potential*

RP.29 C. SIMSERIDES, G. Goldoni, U. Hohenester, A. Ruini, M.J. Caldas, F. Rossi and E. Molinari: *Local optical spectroscopy of nanostructures*

RP.30 H.B. SUN, M.C. de Oliveira and D. Wahyu: *Quantum dynamics of spin polarized opto-electronic processes*

RP.31 M. TADIĆ and F.M. Peeters: *Electronic structure of the valence band in cylindrical strained InP/InGaP quantum dots in an external magnetic field*

RP.32 M. VITZETHUM, R. Schmidt, P. Kiesel, P. Schafmeister, J. Koch, D. Reuter, A.D. Wieck and G.H. Döhler: *A novel photoconductive detector for single photon detection*

RP.33 R.L. WILLIAMS, J. Lefebvre, P.J. Poole, G.C. Aers, D. Chithrani: *Site-selected InAs/InP self-assembled quantum dots*

RP.34 A. WYSMOLEK, M. Potemski, V. Thierry-Mieg, R. Planel: *Single dot emission induced by high magnetic fields*

RP.35 A.V. CHAPLIK: *Magnetoexcitons and electron-hole multiplexes in quantum rings of finite width*

RP.36 A. EMPERADOR, M. Pi, M. Barranco and E. Lipparini: *Spin features in the Raman spectrum of nanoscopic rings*

RP.37 A.A. Bykov, O. ESTIBALS, I.V. Marchishin, L.V. Litvin, A.K. Bakarov, A.I. Toropov, D.K. Maude and J.C. Portal: *Small ring interferometer on the basis of a GaAs quantum well with a high density 2D electron gas*

RP.2 G. CUNIBERTI, R. Gutierrez, G. Fagas, F. Grossmann, K. Richter and R. Schmidt: *Fullerene based devices for molecular electronics*

RP.3 O.V. KIBIS: *Electronic phenomena in chiral carbon nanotubes in presence of a magnetic field*

RP.4 I. MILOŠEVIĆ, T. Vuković, S. Dmitrović and M. Damnjanović: *Electro-optical properties of Carbon nanotubes*

RP.5 M.T. WOODSIDE and P.L. McEuen: *Imaging single-electron motion in carbon nanostructures*

RP.6 J.S. CORREA, T.A. Eckhause, E.G. Gwinn and M. Thomas: *Temperature dependence of critical currents in Nb/InAs/Nb Josephson junction arrays*

RP.7 D. GRUNDLER, T. Hengstmann, N. Klockmann, Ch. Heyn and D. Heitmann: *Bend-resistance nanomagnetometry: Spatially resolved magnetization studies in ferromagnet/semiconductor hybrid structures*

RP.8 E. MCCANN, G. Tkachov, and V.I. Fal'ko: *Magnon-assisted Andreev reflection in a ferromagnet-superconductor junction*

RP.9 A. MISHIMA: *Binding energies of two holes in the two chains with alternate interchain interactions*

RP.10 D. QUIRION, F. Lefloch and M. Sanquer: *Transport and heating effect in proximity superconducting structures*

RP.11 Y. SATO, S.-I. Gozu, T. Kita and S. Yamada: *Study for realization of spin-polarized field effect transistor in $In_{0.75}Ga_{0.25}As/In_{0.75}Al_{0.25}As$ heterostructure*

RP.12 H. TAKAYANAGI, T. Akazaki, M. Kawamura, Y. Harada, J. Nitta: *Superconducting junctions using AlGaAs/GaAs heterostructures with high H_{c2} NbN electrodes*

RP.13 A. ALDEA and M. Niţã: *Orbital magnetization of 2D electrons in coupled quantum dots*

RP.14 D.G. AUSTING, S. Sasaki, K. Muraki, K. Ono, S. Tarucha, M. Barranco, A. Emperador, M. Pi and F. Garcias: *Influence of mismatch on the addition energy spectra of vertical diatomic artificial molecules*

RP.15 M. BAYER, G. Ortner, A. Larionov, V. Timofeev, A. Forchel, P. Hawrylak, K. Hinzer, M. Korkusinski, S. Fafard and Z. Wasilewski: *Entangled exciton states in quantum dot molecules*

RP.16 M. Taki, Y. Nakae, Y. Yamamoto, I. Ferdsteyn, K. Kindo, M. Hagiwara, H. HORI: *Can spin polarization mechanism of 2D-electron gas be applied to the magnetization problem of nano-particle?*

RP.17 M. Brun, S. HUANT, J.C. Woehl, J.-F. Motte, L. Marsal and H. Mariette: *Excitons and multi-excitons in single CdTe quantum dots probed by near-field spectroscopy*

RP.18 M.H. Son, M.S. Jun, J.H. Oh, D.Y. Jeong, J.S. Hwang, J.E. Oh, S.W. HWANG, D. Ahn and L.W. Engel: *Magneto-tunneling through stacked InAs self-assembled quantum dots*

RP.19 M.K.K. Nakaema, M.J.S.P. Brasil, F. IIKAWA, E. Ribeiro, T. Heinzel, K. Ensslin, G. Medeiros-Ribeiro, P.M. Petroff and J.A. Brum: *Micro-photoluminescence of self-assembled quantum dots in the presence of an electron gas*

TP.68 YU.V. PERSHIN, I.D. Vagner, P. Wyder: *Indirect nuclear spin interaction in mesoscopic systems*

TP.69 M. BECK, P. Kiesel, S. Malzer and G.H. Döhler: *Spin transport driven by giant ambipolar diffusion*

TP.70 Y.-M. CHENG, T.-Y. Huang, C.H. Pao, C.-C. Lee, C.-T. Liang, M.Y. Simmons, C.G. Smith, D.A. Ritchie, M. Pepper, G.-H. Kim and J.Y. Leem: *Spin-dependent transport in a two--dimensional GaAs electron gas in a parallel magnetic field*

TP.71 T.-Y. HUANG, Y.-M. Cheng, C.-T. Liang, G.-H. Kim and J.Y. Leem: *Exchange-enhanced Landé g-factor, effective disorder and collapse of spin-splitting in a two-dimensional GaAs electron system*

TP.72 S. LAMARI: *Zero field spin-splitting and Rashba parameter in inversion layers on p-InAs mosfets: results of fully numerical multi-band computations*

TP.73 E. TUTUC and M. Shayegan: *Measurements of the effective g-factor in dilute GaAs 2D electrons*

TP.74 K. YOH, S. Abe, T. Doi, Y. Katano, H. Ohno, K. Sueoka and K. Mukasa: *Direct observation of electron spin splitting in InAs surface inversion layer by interband tunneling spectroscopy*

TP.75 I. HAPKE-WURST, U. Zeitler, R.J. Haug and K. Pierz: *Mapping the g-factor anisotropy of InAs self-assembled quantum dots*

TP.76 T. IHN, J. Rychen, T. Cilento, R. Held, K. Ensslin, W. Wegscheider and M. Bichler: *Scanning gate measurements on a quantum wire*

TP.77 J. KLIJN, Chr. Meyer, D. Haude, M. Getzlaff, M. Morgenstern, R. Adelung, L. Kipp, M. Skibowski and R. Wiesendanger: *Scanning tunneling spectroscopy on adsorbate induced two-dimensional electron systems on InAs(110)*

TP.78 A.V. Yanovsky, H. Predel, H. Buhmann, R.N. Gurzhi, A.N. Kalinenko, A.I. KOPELIOVICH, L.W. Molenkamp: *Spectroscopical imaging of electron scattering in two-dimensional conductors*

TP.79 J. KRAUSS, A.V. Kalameitsev, A.O. Govorov, W. Wegscheider, A. Wixforth and J.P. Kotthaus: *Dynamics of charge spreading in an undoped GaAs-quantum well structure*

Wednesday

WA Magnetic Semiconductors *9:00–10:30*

Chair: ALLAN H. MACDONALD

WA.1 ***9:00–9:30*** P. KOSSACKI, A. Kudelski, J.A. Gaj, J. Cibert, S. Tatarenko, D. Ferrand, A. Wasiela, B. Deveaud and T. Dietl: ***Light controlled and probed ferromagnetism of (Cd,Mn) Te quantum wells***

WA.2 ***9:30–10:00*** F. MATSUKURA, D. Chiba, T. Omiya, E. Abe, T. Dietl, Y. Ohno, K. Ohtani and H. Ohno: ***Control of ferromagnetism in field-effect transistor of a magnetic semiconductor***

WA.3 ***10:00–10:15*** H. Luo, B.D. McCombe, M.H. Na, K. Mooney, F. Lehmann, X. Chen, M. Cheon and S.M. Wang: *Transport and magnetic properties of ferromagnetic GaAs/Mn digital alloys*

WA.4 ***10:15–10:30*** F.J. Teran, M. Potemski, D.K. Maude, A.K. Hassan T. Andrearczyk, J. Jaroszyński, Z. Wilamowski, T. Wojtowicz, G. Karczewski: *Resistively detected EPR of Mn^{2+} ions coupled to the 2DEG in the quantum Hall regime*

Coffee Break *10:30–11:00*

WB Spin-Orbit Interaction ***11:00–12:30***

Chair: Alexander V. Chaplik

WB.1 ***11:00–11:15*** B.I. Halperin: *Spin-orbit effects in GaAs quantum dots*

WB.2 ***11:15–11:30*** B. Hackens, C. Gustin, V. Bayot and M. Shayegan: *Evidence for spin-orbit effects in an open ballistic quantum dot*

WB.3 ***11:30–11:45*** Y.S. Gui, J. Liu, V. Daumer, C.R. Becker, H. Buhmann and L.W. Molenkamp: *Large Rashba spin-orbit splitting in gate controlled n-type modulation doped $HgTe/Hg_{0.3}Cd_{0.7-x}Mn_xTe$ quantum wells*

WB.4 ***11:45–12:00*** K. Fujii, Y. Morikami and T. Ohyama: *Determination of Rashba spin splitting in $In_xGa_{1-x}As/In_yAl_{1-y}As$ by far-infrared magneto-optical absorption*

WB.5 ***12:00-12:15*** R. Winkler, H. Noh, E. Tutuc and M. Shayegan: *Anomalous giant Rashba spin splitting in two-dimensional hole systems*

WB.6 ***12:15–12:30*** Z. Wilamowski and W. Jantsch: *ESR studies of the Bychkov-Rashba field in modulation doped Si/SiGe quantum wells*

Lunch Break *12:30–14:00*

Time for Informal Discussion *14:00–19:00*

Medieval Feast *20:00–23:00*

Thursday

RA Nuclear Spin-involved Effects ***9:00–10:30***

Chair: Carlos Tejedor

RA.1 ***9:00–9:30*** G. Salis, D.D. Awschalom, Y. Ohno, H. Ohno: ***Optical manipulation of nuclear spin by a two-dimensional electron gas***

RA.2 ***9:30–9:45*** W. Desrat, D.K. Maude, M. Potemski, J.C. Portal, Z.R. Wasilewski and G. Hill: *Resistively detected NMR in the quantum Hall regime*

RA.3 ***9:45–10:00*** N.T. Bagraev, A.D. Bouravleuv, W. Gehlhoff, V.K. Ivanov, L.E. Klyachkin, A.M. Malyarenko, S.A. Rykov, I.A. Shelykh: *Spin-dependent single-hole tunneling in self-assembled silicon quantum rings*

RA.4 ***10:00–10:15*** S.I. Erlingsson, Yu.V. Nazarov and V.I. Fal'ko: *Hyperfine-mediated spin-flip transitions in GaAs quantum dots*

RA.5 ***10:15–10:30*** O. Stern, W. Dietsche, K. von Klitzing, W. Wegscheider and M. Bichler: *Phase diagram of the huge longitudinal resistance at filling factor* $2/3$

Coffee Break *10:30–11:00*

RB Kondo Effect and Spin Blocade ***11:00–12:30***

Chair: Bertrand Halperin

RB.1 ***11:00–11:30*** J. Weis, J. Schmid, U. Wilhelm, M. Keller: ***Kondo effect in single and in two electrostatically coupled quantum dot systems***

RB.2 ***11:30–12:00*** Yang Ji, M. Heiblum, D. Mahalu, and H. Shtrikman: ***Phase measurement in a quantum dot with Kondo correlation***

RB.3 ***12:00–12:15*** M. Ciorga, A. Wensauer, M. Pioro-Ladriere, M. Korkusinski, J. Kyriakidis, A.S. Sachrajda and P. Hawrylak: *Spin blockade spectroscopy detection of the collapse of the* $\nu = 2$ *spin singlet electronic phase in quantum dots*

RB.4 ***12:15–12:30*** S. Sasaki, Y. Kitamura, W. Izumida, K. Ono, S. Tarucha: *The Kondo effect in a one- and two-electron quantum dot*

Lunch Break *12:30–14:00*

RC Hybrid Structures ***14:00–15:30***

Chair: Marek Potemski

RC.1 ***14:00–14:30*** A. Richter, P. Baars, U. Merkt: ***Supercurrents in two-dimensional electron systems***

RC.2 ***14:30–14:45*** C.M. Hu, J. Nitta, A. Jensen, J.B. Hansen, H. Takayanagi, T. Matsuyama, D. Grundler, G. Meier, D. Heitmann and U. Merkt: *Spin injection into a two-dimensional electron gas using inter-digital-ferromagnetic contacts*

RC.3 ***14:45–15:15*** C.J. Lambert: ***The interplay between spin-polarized transport and Andreev scattering in ferromagnetic/superconducting nanostructures***

RC.4 ***11:15-15:30*** S.V. Dubonos, I.V. Grigorieva, A.K. Geim, K.S. Novoselov: *Domino effect in ferromagnetic-superconducting hybrids*

Coffee Break *15:30–16:00*

RP Thursday/Posters ***16:00–18:30***

RP.1 S. Bailey, D. Tománek, Y. Kyun-Kwon and C. Lambert: *Giant magneto-conductance in twisted carbon nanotubes*