

List of Publications 2009

- [1] F. Aimo, S. Kraemer, M. Klanjsek, M. Horvatic, C. Berthier and H. Kikuchi. *Spin configuration in the 1/3 magnetization plateau of azurite determined by NMR*. Physical Review Letters **102**, 127205 (2009).
- [2] L. E. G. Armas, G. M. Gusev, T. E. Lamas, A. K. Bakarov and J. C. Portal. *Quantum hall ferromagnet in a double well with vanishing g-factor*. International Journal of Modern Physics B **23**, 2933 (2009). 18th International Conference on High Magnetic Fields in Semiconductor Physics and Nanotechnology, Sao Pedro, BRAZIL, AUG 03-08, 2008.
- [3] A. Audouard, C. Jaudet, D. Vignolles, R. X. Liang, D. A. Bonn, W. N. Hardy, L. Taillefer and C. Proust. *Multiple quantum oscillations in the de Haas-van Alphen spectra of the underdoped high-temperature superconductor $YBa_2Cu_3O_{6.5}$* . Physical Review Letters **103**, 157003 (2009).
- [4] S. Awirothananon, S. Raymond, S. Studenikin, M. Vachon, W. Render, A. Sachrajda, X. Wu, A. Babinski, M. Potemski, S. Fafard, S. J. Cheng, M. Korkusinski and P. Hawrylak. *Single-exciton energy shell structure in InAs/GaAs quantum dots*. Physical Review B **78**, 235313 (2008).
- [5] A. Babinski, A. Golnik, J. Borysiuk, S. Kret, P. Kossacki, J. A. Gaj, S. Raymond, M. Potemski and Z. R. Wasilewski. *Three-dimensional localization of excitons in the InAs/GaAs wetting layer - magnetospectroscopic study*. Physica Status Solidi B-Basic Solid State Physics **246**, 850 (2009). 5th International Conference on Semiconductor Quantum Dots, Gyeongju, SOUTH KOREA, MAY 11-16, 2008.
- [6] M. G. Banks, R. K. Kremer, C. Hoch, A. Simon, B. Ouladdiaf, J. M. Broto, H. Rakoto, C. Lee and M. H. Whangbo. *Magnetic ordering in the frustrated heisenberg chain system cupric chloride $CuCl_2$* . Physical Review B **80**, 024404 (2009).
- [7] F. Bert, A. Olariu, A. Zorko, P. Mendels, J. C. Trombe, F. Duc, M. A. de Vries, A. Harrison, A. D. Hillier, J. Lord, A. Amato and C. Baines. *Frustrated magnetism in the quantum Kagome Herbertsmithite $ZnCu_3(OH)_6Cl_2$ antiferromagnet*. Journal of Physics: Conference Series **145**, 012004 (2009).
- [8] F. Bielsa, A. Dupays, M. Fouche, R. Ballesti, C. Robilliard and C. Rizzo. *Birefringence of interferential mirrors at normal incidence*. Applied Physics B-Lasers and Optics **97**, 457 (2009).
- [9] L. Bogani, C. Danieli, E. Biavardi, N. Bendiab, A.-L. Barra, E. Dalcaneale, W. Wernsdorfer and A. Cornia. *Single-molecule-magnet carbon-nanotube hybrids*. Angewandte Chemie-International Edition **48**, 746 (2009).
- [10] N. Bréfuel, H. Watanabe, L. Toupet, J. Come, N. Matsumoto, E. Collet, K. Tanaka and J.-P. Tuchagues. *Concerted spin crossover and symmetry breaking yield three thermally and one light-induced crystallographic phases of a molecular material*. Angewandte Chemie International Edition **48,49**, 9304 (2009).
- [11] L. Bryja, A. Wojs, J. Misiewicz, P. Plochocka, M. Potemski, D. Reuter and A. Wieck. *Photoluminescence studies of positively charged excitons in asymmetric GaAs/Ga_{1-x}Al_xAs quantum wells with a two-dimensional hole gas*. International Journal of Modern Physics B **23**, 2718 (2009). 18th International Conference on High Magnetic Fields in Semiconductor Physics and Nanotechnology, Sao Pedro, BRAZIL, AUG 03-08, 2008.
- [12] M. V. Budantsev, A. G. Pogosov, A. K. Bakarov, A. I. Toropov and J. C. Portal. *Effect of an in-plane magnetic field on magnetoresistance hysteresis of the two-dimensional electron gas in the integer quantum Hall effect regime*. JETP Letters **89**, 92 (2009).
- [13] M. Casse, F. Rochette, L. Thevenod, N. Bhouri, F. Andrieu, G. Reimbold, F. Boulanger, M. Mouis, G. Ghibaudo and D. K. Maude. *A comprehensive study of magnetoresistance mobility in short channel transistors: Application to strained and unstrained silicon-on-insulator field-effect transistors*. Journal of Applied Physics **105**, 084503 (2009).
- [14] X. Chaud, J. Noudem, T. Prikhna, Y. Savchuk, E. Haanappel, P. Diko and C. P. Zhang. *Flux mapping at 77 k and local measurement at lower temperature of thin-wall YBaCuO single-domain samples oxygenated under high pressure*. Physica C-Superconductivity And Its Applications **469**, 1200 (2009).
- [15] R. A. Cooper, Y. Wang, B. Vignolle, O. J. Lipscombe, S. M. Hayden, Y. Tanabe, T. Adachi, Y. Koike, M. Nohara, H. Takagi, C. Proust and N. E. Hussey. *Anomalous criticality in the electrical resistivity of $La_{2-x}Sr_xCuO_4$* . Science **323**, 603 (2009).
- [16] C. Danieli, A. Cornia, C. Cecchelli, R. Sessoli, A.-L. Barra, G. Ponterini and B. Zanfrognini. *A novel class of tetrairon(III) single-molecule magnets with graphene-binding groups*. Polyhedron **28**, 2029 (2009). 11th International Conference on Molecule-Based Magnets (ICMM 2008), Florence, ITALY, SEP 21-24, 2008.
- [17] C. R. Dean, B. A. Piot, G. Gervais, L. N. Pfeiffer and K. W. West. *Current-induced nuclear-spin activation in a two-dimensional electron gas*. Physical Review B **80**, 153301 (2009).
- [18] E. del Corro, J. Gonzalez, M. Taravillo, W. Escoffier and V. G. Baonza. *Graphite under non-hydrostatic conditions*. High Pressure Research **28**, 583 (2008).
- [19] W. Desrat, S. Kamara, F. Terki, S. Charar, J. Sadowski and D. K. Maude. *Antisymmetric magnetoresistance anomalies and magnetic domain structure in GaMnAs/InGaAs layers*. Semiconductor Science and Technology **24**, 065011 (2009).
- [20] C. v. Dewitz, F. Hatami, M. Millot, J. M. Broto, J. Leotin and W. T. Masselink. *Evidence of type-i direct recombination in InP/GaP quantum dots via magnetoluminescence*. Applied Physics Letters **95**, 151105 (2009).

- [21] O. Drachenko, D. V. Kozlov, V. Y. Aleshkin, V. I. Gavrilenko, K. V. Maremyanin, A. V. Ikonnikov, B. N. Zvonkov, M. Goiran, J. Leotin, G. Fasching, S. Winnerl, H. Schneider, J. Wosnitza and M. Helm. *High-field splitting of the cyclotron resonance absorption in strained p-InGaAs/GaAs quantum wells*. Physical Review B **79**, 073301 (2009).
- [22] C. A. Duarte, G. M. Gusev, T. E. Lamas, A. K. Bakarov and J. C. Portal. *Valley splitting and g-factor in AlAs quantum wells*. International Journal of Modern Physics B **23**, 2948 (2009). 18th International Conference on High Magnetic Fields in Semiconductor Physics and Nanotechnology, Sao Pedro, BRAZIL, AUG 03-08, 2008.
- [23] C. Duboc and M.-N. Collomb. *Détermination des propriétés électroniques de complexes du manganèse. spectroscopie de résonance paramagnétique électronique à haut champ (RPE-HF) et calculs théoriques : une combinaison gagnante*. Actualité Chimique **326**, 19 (2009).
- [24] C. Duboc and M.-N. Collomb. *Multifrequency high field EPR investigation of a mononuclear manganese(IV) complex*. Chem. Comm. 2717 (2009).
- [25] C. Faugeras, M. Amado, P. Kossacki, M. Orlita, M. Sprinkle, C. Berger, W. A. de Heer and M. Potemski. *Tuning the electron-phonon coupling in multilayer graphene with magnetic fields*. Physical Review Letters **103**, 186803 (2009).
- [26] C. Faugeras, M. Orlita, S. Deuchlander, G. Martinez, P. Y. Yu, A. Riedel, R. Hey and K. J. Friedland. *Measurement of the infrared transmission through a single doped GaAs quantum well in an external magnetic field: Evidence for polaron effects*. Physical Review B **80**, 073303 (2009).
- [27] B. Fauqué, B. Vignolle, C. Proust, J. Issi and K. Behnia. *Electronic instability in bismuth far beyond the quantum limit*. New Journal of Physics **11**, 113012 (2009).
- [28] B. Fauqué, H. Yang, I. Sheikin, L. Balicas, J.-P. Issi and K. Behnia. *Hall plateaus at magic angles in bismuth beyond the quantum limit*. Physical Review B **79**, 245124 (2009).
- [29] O. M. Fedorych, S. A. Studenikin, S. Moreau, M. Potemski, T. Saku and Y. Hirayama. *Microwave magnetoplasmon absorption by a 2DEG stripe*. International Journal of Modern Physics B **23**, 2698 (2009). 18th International Conference on High Magnetic Fields in Semiconductor Physics and Nanotechnology, Sao Pedro, BRAZIL, AUG 03-08, 2008.
- [30] D. Fishman, C. Faugeras, M. Potemski, A. Revcolevschi and P. H. M. van Loosdrecht. *Magneto-optical readout of dark exciton distribution in cuprous oxide*. Physical Review B **80**, 045208 (2009).
- [31] M. Fittipaldi, L. Sorace, A.-L. Barra, C. Sangregorio, R. Sessoli and D. Gatteschi. *Molecular nanomagnets and magnetic nanoparticles: the EMR contribution to a common approach*. Physical Chemistry Chemical Physics **11**, 6555 (2009).
- [32] S. Frantz, M. Sieger, I. Hartenbach, F. Lissner, T. Schleid, J. Fiedler, C. Duboc and W. Kaim. *Structure, electrochemistry, spectroscopy, and magnetic resonance, including high-field EPR, of $((\mu\text{-abpy})[\text{Re}(\text{CO})_3\text{X}]_2)^0$, - where $\text{abpy} = 2,2'$ -azobispyridine and $\text{X} = \text{F}, \text{Cl}, \text{Br}$* . I. J. Organomet. Chem. **694**, 1122 (2009).
- [33] K. J. Friedland, A. Siddiki, R. Hey, H. Kostial, A. Riedel and D. K. Maude. *Quantum hall effect in a high-mobility two-dimensional electron gas on the surface of a cylinder*. Physical Review B **79**, 125320 (2009).
- [34] A. Goiran, J. M. Poumirol, M. P. Semtsiv, W. T. Masselink, D. Smirnov, V. V. Rylkov and J. Leotin. *Magneto spectroscopy of AIP quantum wells*. Transport and Optical Properties of Nanomaterials **1147**, 3 (2009).
- [35] M. Goiran, M. P. Semtsiv, W. T. Masselink and J. Leotin. *AIP/GaP quantum wells for implementing intersubband devices in the 30-60 μm wavelength region*. 2008 33rd International Conference On Infrared, Millimeter And Terahertz Waves, Vols 1 And 2 350 (2008).
- [36] J. Gonzalez, C. Power, E. Blandria, J. Jorge, F. Gonzalez-Jimenez, M. Millot, S. Nanot, J. M. Broto and E. Flahaut. *Pressure dependence of raman modes in double wall carbon nanotubes filled with -Fe*. High Pressure Research **28**, 577 (2008).
- [37] L. Gregoli, C. Danieli, A.-L. Barra, P. Neugebauer, G. Pellegrino, G. Poneti, R. Sessoli and A. Cornia. *Magnetostructural correlations in tetrairon(III) single-molecule magnets*. Chemistry-A European Journal **15**, 6456 (2009).
- [38] G. M. Gusev, S. Wiedmann, O. E. Raichev, A. K. Bakarov and J. C. Portal. *Emergent and reentrant fractional quantum hall effect in trilayer systems in a tilted magnetic field*. Physical Review B (Condensed Matter and Materials Physics) **80**, 161302 (2009).
- [39] K. Haas, T. Kazimierzuk, P. Wojnar, A. Golnik, J. Gaj and P. Kossacki. *Control of local electric fields influencing the photoluminescence of an individual cdt/znte quantum dot*. Acta Physica Polonica A **116**, 896 (2009).
- [40] J. Jadcak, L. Bryja, P. Plochocka, A. Wojs, J. Misiewicz, D. Maude and M. Potemski. *Combined exciton-cyclotron resonance in photoluminescence of a two-dimensional hole gas*. Acta Physica Polonica A **116**, 852 (2009).
- [41] S. Jandl, A. A. Mukhin, V. Y. Ivanov, A. Balbashov and M. Orlita. *Nd^{3+} crystal-field study of weakly doped $\text{Nd}_{1-x}\text{Ca}_x\text{MnO}_3$* . Journal of Magnetism and Magnetic Materials **321**, 3607 (2009).
- [42] C. Jaudet, J. Levallois, A. Audouard, D. Vignolles, B. Vignolle, R. Liang, D. A. Bonn, W. N. Hardy, N. E. Hussey, L. Taillefer and C. Proust. *Quantum oscillations in underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{6.5}$* . Physica B-Condensed Matter **404**, 354 (2009).
- [43] B. Jouault, M. Gryglas, M. Baj, A. Cavanna, U. Gennser, G. Faini and D. K. Maude. *Spin filtering through a single impurity in a GaAs/AlAs/GaAs resonant tunneling device*. Physical Review B **79**, 041307 (2009).
- [44] M.-H. Julien. *Enhanced low-energy spin dynamics with diffusive character in the iron-based superconductor $(\text{La}_{0.87}\text{Ca}_{0.13})\text{FePO}$: Analogy with high T_c cuprates*. Journal of the Physical Society of Japan **77**, 125002 (2008).
- [45] M. H. Julien, H. Mayaffre, M. Horvatic, C. Berthier, X. D. Zhang, W. Wu, G. F. Chen, N. L. Wang and J. L. Luo. *Homogeneous vs. inhomogeneous coexistence of magnetic order and superconductivity probed by NMR in Co- and K-doped iron pnictides*. Euro Physics Letters **87**, 37001 (2009).
- [46] A. A. Kapustin, A. A. Shashkin, V. T. Dolgoplov, M. Goiran, H. Rakoto and Z. D. Kvon. *Spin susceptibility and polarization field in a dilute two-dimensional electron system in (111) silicon*. Physical Review B **79**, 205314 (2009).
- [47] Z. A. Kazei, V. V. Snegirev, N. P. Danilova, M. Goiran, L. P. Kozeeva and M. Y. Kameneva. *Microwave absorption spectra and the problem of the crystal field in tetragonal compounds $\text{HoBa}_2\text{Cu}_3\text{O}_x$ ($x=6.0, 6.3$)*. JETP Letters **88**, 725 (2008).

- [48] T. Kazimierzczuk, A. Golnik, M. Goryca, P. Wojnar, J. Gaj and P. Kossacki. *Anisotropic exchange interaction between p-shell electron and s-shell hole in cdte/znte quantum dots*. Acta Physica Polonica A **116**, 882 (2009).
- [49] W. Knafo, C. Meingast, A. V. Boris, P. Popovich, N. N. Kovaleva, P. Yordanov, A. Maljuk, R. K. Kremer, H. V. Lohneysen and B. Keimer. *Ferromagnetism and lattice distortions in the perovskite YTiO₃*. Physical Review B **79**, 054431 (2009).
- [50] W. Knafo, C. Meingast, S. Sakarya, N. H. van Dijk, Y. Huang, H. Rakoto, J. M. Broto and H. V. Lohneysen. *Critical scaling of the magnetization and magnetostriction in the weak itinerant ferromagnet UIr*. Journal of the Physical Society of Japan **78**, 043707 (2009).
- [51] W. Knafo, S. Raymond, P. Lejay and J. Flouquet. *Antiferromagnetic criticality at a heavy-fermion quantum phase transition*. Nature Physics **5**, 753 (2009).
- [52] J. Kobak, M. Goryca, P. Kossacki, A. Golnik, G. Karczewski, T. Wojtowicz and J. Gaj. *Magnetization dynamics of a (cd, mn)te quantum well in pulsed magnetic field*. Acta Physica Polonica A **116**, 907 (2009).
- [53] Y. Kopelevich, B. Raquet, M. Goiran, W. Escoffier, R. R. da Silva, J. C. M. Pantoja, I. A. Luk'yanchuk, A. Sinchenko and P. Monceau. *Searching for the fractional quantum Hall effect in graphite*. Physical Review Letters **103**, 116802 (2009).
- [54] M. Koperski, T. Kazimierzczuk, M. Goryca, P. Wojnar, A. Golnik, P. Kossacki and J. Gaj. *Numerical rate equation approach to picosecond charge state dynamics in cdte/znte quantum dots*. Acta Physica Polonica A **116**, 893 (2009).
- [55] G. Koutroulakis, J. M. D. Stewart, V. F. Mitrovic, M. Horvatic, C. Berthier, G. Lapertot and J. Flouquet. *Field evolution of coexisting superconducting and magnetic orders in CeCoIn₅*. Phys. Rev. Lett. , in press ([arXiv:0912.3548](https://arxiv.org/abs/0912.3548)) (2010).
- [56] Y. I. Latyshev, A. P. Orlov, A. Y. Latyshev, A. M. Smolovich, P. Monceau and D. Vignolles. *Recent experiments on interlayer tunneling spectroscopy and transverse electric field effect in NbSe₃*. Physica B-Condensed Matter **404**, 399 (2009).
- [57] J. Levallois, K. Behnia, J. Flouquet, P. Lejay and C. Proust. *On the destruction of the hidden order in URu₂Si₂ by a strong magnetic field*. Euro Physics Letters **85**, 27003 (2009).
- [58] F. Levy, I. Sheikin, C. Berthier, M. Horvatic and M. Takigawa. *Reply to the Comment by S. E. Sebastian and N. Harrison*. Euro Physics Letters **85**, 67008 (2009).
- [59] F. Levy, I. Sheikin, B. Grenier, C. Marcenat and A. Huxley. *Coexistence and interplay of superconductivity and ferromagnetism in URhGe*. Journal of Physics-Condensed Matter **21**, 164211 (2009). 25th International Conference on Low Temperature Physics (LT25), Amsterdam, NETHERLANDS, AUG 06-13, 2008.
- [60] O. Lipscombe, B. Vignolle, T. Perring, C. Frost and S. Hayden. *Emergence of coherent magnetic excitations in the high temperature underdoped La₂ - xSr_xCuO₄ superconductor at low temperatures*. Physical Review Letters **102**, 167002 (2009).
- [61] G. P. Lousberg, J. Gagnard, E. Haanappel, X. Chaud, M. Ausloos, B. Vanderheyden and P. Vanderbemden. *Pulsed field magnetization of drilled high temperature superconductors: flux front propagation in the volume and on the surface*. Superconductor Science and Technology **22**, 125026 ((2009)).
- [62] T. T. A. Lummen, C. Strohm, H. Rakoto, A. A. Nugroho and P. H. M. van Loosdrecht. *High-field recovery of the undistorted triangular lattice in the frustrated metamagnet CuFeO₂*. Physical Review B **80**, 012406 (2009).
- [63] A. Malagoli, V. Braccini, M. Tropeano, M. Vignolo, C. Bernini, C. Fanciulli, G. Romano, M. Putti, C. Ferdeghini, E. Mossang, A. Polyanskii and D. C. Larbalestier. *Effect of grain refinement on enhancing critical current density and upper critical field in undoped MgB₂ ex situ tapes*. Journal of Applied Physics **104**, 103908 (2008).
- [64] M. Matsuda, K. Ohoyama, S. Yoshii, H. Nojiri, P. Frings, F. D. and B. Vignolle, G. L. J. A. Rikken, L.-P. Regnault, S.-H. Lee, H. Ueda, and Y. Ueda. *Universal magnetic structure of the half-magnetization phase in cr-based spinels*. Physical Review Letters (2009). Accepted for publications.
- [65] C. Meingast, Q. Zhang, T. Wolf, F. Hardy, K. Grube, W. Knafo, P. Adelman, P. Schweiss and H. von Lohneysen. *Resistivity of Mn_{1-x}Fe_xSi Single Crystals: Evidence for Quantum Critical Behavior*. Properties and Applications of Thermoelectric Materials **261** (2009).
- [66] M. Millot, S. George, J. M. Broto, B. Couzinet, J. C. Chervin, A. Polian, C. Power and J. Gonzalez. *New diamond anvil cell for optical and transport measurements under high magnetic fields up to 60T*. High Pressure Research **28**, 627 (2008).
- [67] M. Millot, S. Gilliland, J. M. Broto, J. Gonzalez, J. Leotin, A. Chevy and A. Segura. *High pressure and high magnetic field behaviour of free and donor-bound-exciton photoluminescence in InSe*. Physica Status Solidi B-Basic Solid State Physics **246**, 532 (2009).
- [68] M. Nannini, H. Cloez, S. Girard, C. Roux, J. P. Serries, M. Tena, L. Zani and E. Mossang. *Characterization of industrial NbTi strands at variable field for JT-60SA toroidal field coils*. Fusion Engineering and Design **84**, 1404 (2009). 25th Symposium on Fusion Technology, Rostock, GERMANY, SEP 15-19, 2008.
- [69] S. Nanot, R. Avriller, W. Escoffier, J.-M. Broto, S. Roche and B. Raquet. *Propagative landau states and fermi level pinning in carbon nanotubes*. Physical Review Letters **103**, 256801 (2009).
- [70] S. Nanot, W. Escoffier, B. Lassagne, J. M. Broto and B. Raquet. *Exploring the electronic band structure of individual carbon nanotubes under 60 T*. Comptes Rendus Physique **10**, 268 (2009).
- [71] P. Neugebauer and A. Barra. *New cavity design for broad-band quasi-optical hf-epr spectroscopy*. Appl. Magn. Reson. **37**, 833 (2009).
- [72] P. Neugebauer, M. Orlita, C. Faugeras, A. L. Barra and M. Potemski. *How perfect can graphene be?* Physical Review Letters **103**, 136403 (2009).
- [73] A. Nish, R. J. Nicholas, C. Faugeras, Z. Bao and M. Potemski. *High-field magneto-optical behavior of polymer-embedded single-walled carbon nanotubes*. Physical Review B **78**, 245413 (2008).
- [74] A. Nogaret, J.-C. Portal, H. E. Beere, D. A. Ritchie and C. Phillips. *Quantum interference of magnetic edge channels activated by intersubband optical transitions in magnetically confined quantum wires*. Journal of Physics-Condensed Matter **21**, 025303 (2009).

- [75] S. Nowak, T. Jakubczyk, M. Goryca, P. Ciosmak, A. Golnik, P. Kossacki, P. Wojnar and J. Gaj. *Emission of self assembled cdte/znte quantum dot samples with different cap thickness*. Acta Physica Polonica A **116**, 890 (2009).
- [76] Y. Oener and M. Guillot. *Magnetic disorder in Ti doped ErCo₂: High-magnetic-field study*. Journal of Applied Physics **105**, 07E120 (2009). 53rd Annual Conference on Magnetism and Magnetic Materials, Austin, TX, NOV 11-14, 2008.
- [77] M. Orlita, C. Faugeras, G. Martinez, D. K. Maude, J. M. Schneider, M. Sprinkle, C. Berger, W. A. de Heer and M. Potemski. *Magneto-transmission of multi-layer epitaxial graphene and bulk graphite: A comparison*. Solid State Communications **149**, 1128 (2009). Graphene Week 2008 International Conference, Trieste, ITALY, 2008.
- [78] M. Orlita, C. Faugeras, P. Plochocka, P. Neugebauer, G. Martinez, D. K. Maude, A. L. Barra, M. Sprinkle, C. Berger, W. A. de Heer and M. Potemski. *Approaching the Dirac Point in High-Mobility Multilayer Epitaxial Graphene*. Physical Review Letters **101**, 267601 (2008).
- [79] M. Orlita, C. Faugeras, J. M. Schneider, G. Martinez, D. K. Maude and M. Potemski. *Graphite from the viewpoint of Landau level spectroscopy: An effective graphene bilayer and monolayer*. Physical Review Letters **102**, 166401 (2009).
- [80] I. Pallecchi, C. Fanciulli, M. Tropeano, A. Palenzona, M. Ferretti, A. Malagoli, A. Martinelli, I. Sheikin, M. Putti and C. Ferdeghini. *Upper critical field and fluctuation conductivity in the critical regime of doped SmFeAsO*. Physical Review B **79**, 104515 (2009).
- [81] J. Papierska, M. Goryca, P. Wojnar and P. Kossacki. *Temperature of a single mn atom in a cdte quantum dot*. Acta Physica Polonica A **116**, 899 (2009).
- [82] A. Patane, W. H. M. Feu, O. Makarovsky, O. Drachenko, L. Eaves, A. Krier, Q. D. Zhuang, M. Helm, M. Goiran and G. Hill. *Effect of low nitrogen concentrations on the electronic properties of InAs_{1-x}N_x*. Physical Review B **80**, 115207 (2009).
- [83] O. Pauvert, F. Fayon, A. Rakhmatullin, S. Kraemer, M. Horvatic, D. Avignant, C. Berthier, M. Deschamps, D. Massiot and C. Bessada. *Zr-91 Nuclear Magnetic Resonance Spectroscopy of Solid Zirconium Halides at High Magnetic Field*. Inorganic Chemistry **48**, 8709 (2009).
- [84] M. L. Peres, V. A. Chitta, N. F. Oliveira, Jr., D. K. Maude, P. H. O. Rappl, A. Y. Ueta and E. Abramof. *Antilocalization of hole carriers in Pb_{1-x}Eu_xTe alloys in the metallic regime*. Physical Review B **79**, 085309 (2009).
- [85] A. P. Petrović, Y. Fasano, R. Lortz, C. Senatore, A. Demuer, A. B. Antunes, A. Paré, D. Salloum, P. Gougeon, M. Potel and O. Fischer. *Real-space vortex glass imaging and the vortex phase diagram of SnMo₆S₈*. Physical Review Letters **103**, 257001 (2009).
- [86] B. A. Piot, C. R. Dean, G. Gervais, Z. Jiang, L. W. Engel, L. N. Pfeiffer and K. W. West. *Distortion of the 2D Wigner crystal into a 'quasi-3D' insulator*. International Journal of Modern Physics B **23**, 2713 (2009). 18th International Conference on High Magnetic Fields in Semiconductor Physics and Nanotechnology, Sao Pedro, BRAZIL, AUG 03-08, 2008.
- [87] B. A. Piot, D. K. Maude, U. Gennser, A. Cavanna and D. Maily. *Interplay among spin, orbital effects, and localization in a GaAs two-dimensional electron gas in a strong in-plane magnetic field*. Physical Review B **80**, 115337 (2009).
- [88] P. Plochocka, P. Kossacki, A. Golnik, T. Kazimierzczuk, C. Berger, W. A. de Heer and M. Potemski. *Slowing hot-carrier relaxation in graphene using a magnetic field*. Physical Review B (Condensed Matter and Materials Physics) **80**, 245415 (2009).
- [89] P. Plochocka, J. M. Schneider, D. K. Maude, M. Potemski, M. Rappaport, V. Umansky, I. Bar-Joseph, J. G. Groshaus, Y. Gallais and A. Pinczuk. *Optical absorption to probe the quantum Hall ferromagnet at filling factor $\nu = 1$* . Physical Review Letters **102**, 126806 (2009).
- [90] M. Potemski. *Landau level spectroscopy of dirac-like fermions in multilayer graphene*. International Journal of Modern Physics B **23**, 2665 (2009). 18th International Conference on High Magnetic Fields in Semiconductor Physics and Nanotechnology, Sao Pedro, BRAZIL, AUG 03-08, 2008.
- [91] V. Preisler, T. Grange, R. Ferreira, L. A. de Vaulchier, Y. Guldner, F. J. Teran, M. Potemski and A. Lemaitre. *Investigation of interband optical transitions by near-resonant magneto-photoluminescence in InAs/GaAs quantum dots*. European Physical Journal B **67**, 51 (2009).
- [92] G. Pristas, M. Reiffers, E. Bauer, A. G. M. Jansen and D. K. Maude. *Suppression of asymmetric differential resistance in the non-Fermi-liquid system YbCu_{5-x}Al_x ($x=1.3-1.75$) in high magnetic fields*. Physical Review B **78**, 235108 (2008).
- [93] C. Proust and D. Poilblanc. *Des champs magnétiques intenses pour sonder les supraconducteurs*. Images de la Physique 87-92 (2008).
- [94] G. Quirion, M. L. Plumer, O. A. Petrenko, G. Balakrishnan and C. Proust. *Magnetic phase diagram of magnetoelectric CuFeO₂ in high magnetic fields*. Physical Review B **80**, 064420 (2009).
- [95] C. Robilliard, B. Pinto Da Souza, F. Bielsa, J. Mauchain, M. Nardone, G. Bailly, M. Fouche, R. Battesti and C. Rizzo. *The bmv project: Search for photon oscillations into massive particles*. Canadian Journal of Physics **87**, 735 (2009).
- [96] V. V. Rylkov, B. A. Aronson, A. S. Lagutin, V. V. Podol'skii, V. P. Lesnikov, M. Goiran, J. Galibert, B. Raquet and J. Leotin. *Transport features in laser-plasma-deposited InMnAs layers in strong magnetic fields*. Journal of Experimental and Theoretical Physics **108**, 149 (2009).
- [97] J. M. Schneider, M. Orlita, M. Potemski and D. K. Maude. *Consistent Interpretation of the Low-Temperature Magnetotransport in Graphite Using the Slonczewski-Weiss-McClure 3D Band-Structure Calculations*. Physical Review Letters **102**, 166403 (2009).
- [98] J. Shaver, A. N. G. Parra-Vasquez, S. Hansel, O. Portugall, C. H. Mielke, M. von Ortenberg, R. H. Hauge, M. Pasquali and J. Kono. *Alignment dynamics of single-walled carbon nanotubes in pulsed ultrahigh magnetic fields*. ACS Nano **3**, 131 (2009).
- [99] J. Shaver, A. Srivastava, J. Kono, S. A. Crooker, H. Htoon, V. I. Klimov, J. A. Fagan, E. K. Hobbie, N. Ubrig, O. Portugall, V. Perebeinos and P. H. Avouris. *High field magneto-optical spectroscopy of highly aligned individual and ensemble single-walled carbon nanotubes*. International Journal of Modern Physics B **23**, 2667 (2009).
- [100] N. Silva, A. Millán, F. Palacio, E. Kampert, U. Zeitler, H. Rakoto and V. Amaral. *Temperature dependence of antiferromagnetic susceptibility in ferritin*. Physical Review B **79**, 104405 (2009).

- [101] R. Stoyanova, A. L. Barra, E. Zhecheva, R. Alcantara, G. Ortiz and J.-L. Tirado. *Local Coordination of Fe₃₊ in Layered LiCo_{1-y}Al_yO₂ Oxides Determined by High-Frequency Electron Paramagnetic Resonance Spectroscopy*. *Inorganic Chemistry* **48**, 4798 (2009).
- [102] P. Strobel, H. Muguerra, S. Hebert, E. Pachoud, C. Colin and M.-H. Julien. *Effect of ruthenium substitution in layered sodium cobaltate Na_xCoO₂: Synthesis, structural and physical properties*. *Journal of Solid State Chemistry* **182**, 1872 (2009).
- [103] L. Thilly, S. Van Petegem, P. O. Renault, F. Lecouturier, V. Vidal, B. Schmitt and H. Van Swygenhoven. *A new criterion for elasto-plastic transition in nanomaterials: Application to size and composite effects on Cu-Nb nanocomposite wires*. *Acta Materialia* **57**, 3157 (2009).
- [104] C. A. Thuesen, A.-L. Barra and J. Glerup. *Single crystal electron paramagnetic resonance spectra of CS₂MnF₆ and K₂MnF₆ diluted in the isomorphous germanium salts*. *Inorganic Chemistry* **48**, 3198 (2009).
- [105] T. D. Tzima, G. Sioros, C. Duboc, D. K. Demertzis, V. S. Melissas and Y. Sanakis. *Multifrequency electron paramagnetic resonance and theoretical studies of a mn(II) (S = 5/2) complex. the role of geometrical elements on the zero field splitting parameters*. *Polyhedron* **28**, 3257 (2009).
- [106] M. Vachon, S. Raymond, A. Babinski, J. Lapointe, Z. Wasilewski and M. Potemski. *Energy shell structure of a single InAs/GaAs quantum dot with a spin-orbit interaction*. *Physical Review B* **79**, 165427 (2009).
- [107] L. Van Khoi, A. Avdonin, R. Szymczak, R. R. Galazka and M. Potemski. *Electroluminescence and positive magnetoresistance near the curie-weiss temperature in the Zn_{1-x}Mn_xTe light emitting devices*. *Journal of Applied Physics* **106**, 036102 (2009).
- [108] L. Van Khoi, A. Avdonin, R. Szymczak, R. R. Galazka and M. Potemski. *Magnetoresistance and electroluminescence near the curie-weiss temperature in the Zn_{1-x}Mn_xTe light emitting devices*. *Acta Physica Polonica A* **116**, 941 (2009).
- [109] V. Vidal, L. Thilly, S. Van Petegem, U. Stuhr, F. Lecouturier, P. O. Renault and H. Van Swygenhoven. *Plasticity of nanostructured Cu-Nb-based wires: Strengthening mechanisms revealed by in situ deformation under neutrons*. *Scripta Materialia* **60**, 171 (2009).
- [110] D. Vignolles, A. Audouard, V. N. Laukhin, E. Canadell, T. Prokhorova and E. B. Yagubskii. *Indications for the coexistence of closed orbit and quantum interferometer with the same cross section in the organic metal β''-(et)₄(h₃o)[fe(c₂o₄)₃]-c₆h₄cl₂: Persistence of shubnikov-de haas oscillations above 30 k*. *European Physical Journal B* **71**, 203 (2009).
- [111] D. Vignolles, A. Audouard, V. N. Laukhin, M. Nardone, E. Canadell, N. G. Spitsina and E. B. Yagubskii. *Magnetic oscillations amplitude of a dirty quasi two-dimensional organic metal*. *Synthetic Metals* **158**, 973 (2008).
- [112] D. Vignolles, A. Audouard, R. B. Lyubovskii, M. Nardone, E. Canadell, E. I. Zhilyaeva and R. N. Lyubovskaya. *Shubnikov-de Haas oscillations spectrum of the strongly correlated quasi-2D organic metal (ET)₍₈₎[Hg₄Cl₁₂(C₆H₅Br)₍₂₎] under pressure*. *European Physical Journal B* **66**, 489 (2008).
- [113] G. Wagnières and G. Rikken. *Chirality and magnetism: Free electron on an infinite helix, ncd, mcd, and magnetochiral dichroism*. *Chem. Phys. Lett.* **481**, 166 (2009).
- [114] O. Waldmann, T. C. Stamatatos, G. Christou, H. U. Guedel, I. Sheikin and H. Mutka. *Quantum Phase Interference and Neel-Vector Tunneling in Antiferromagnetic Molecular Wheels*. *Physical Review Letters* **102**, 157202 (2009).
- [115] D. Wang, Y. Ma, Z. Gao, X. Zhang, L. Wang, E. Mossang, G. Nishijima, S. Awaji and K. Watanabe. *Enhancement of the High-Field J (c) properties of MgB₂/Fe Tapes by Acetone Doping*. *Journal of Superconductivity and Novel Magnetism* **22**, 671 (2009).
- [116] D. Wang, X. Zhang, Z. Gao, L. Wang, Y. Ma, S. Awaji, G. Nishijima, K. Watanabe and E. Mossang. *Effect of processing temperature on the superconducting properties of acetone doped MgB₂ tapes*. *Physica C-Superconductivity and its Applications* **469**, 23 (2009).
- [117] H. Weihe, S. Piligkos, A. L. Barra, I. Laursen and O. Johnsen. *EPR of Mn²⁺ impurities in calcite: a detailed study pertinent to marble provenance determination*. *Archaeometry* **51**, 43 (2009).
- [118] S. Wiedmann, G. M. Gusev, O. E. Raichev, A. K. Bakarov and J. C. Portal. *High-order fractional microwave-induced resistance oscillations in two-dimensional systems*. *Physical Review B* **80**, 035317 (2009).
- [119] S. Wiedmann, G. M. Gusev, O. E. Raichev, T. E. Lamas, A. K. Bakarov and J. C. Portal. *Magnetoresistance oscillations in double quantum wells under microwave irradiation*. *International Journal of Modern Physics B* **23**, 2943 (2009). 18th International Conference on High Magnetic Fields in Semiconductor Physics and Nanotechnology, Sao Pedro, BRAZIL, AUG 03-08, 2008.
- [120] S. Wiedmann, N. C. Mamani, G. M. Gusev, O. E. Raichev, A. K. Bakarov and J. C. Portal. *Magnetoresistance oscillations in multilayer systems: Triple quantum wells*. *Physical Review B (Condensed Matter and Materials Physics)* **80**, 245306 (2009).
- [121] A. Wojs, L. Bryja and M. Potemski. *Effects of ionized impurities on binding and recombination of positive and negative quasi-two-dimensional magneto-trions*. *International Journal of Modern Physics B* **23**, 2964 (2009). 18th International Conference on High Magnetic Fields in Semiconductor Physics and Nanotechnology, Sao Pedro, BRAZIL, AUG 03-08, 2008.
- [122] A. Wyszolek, M. Kaminska, A. Twardowski, M. Potemski, M. Bockowski and I. Grzegory. *Magneto-luminescence of gadolinium doped gallium nitride*. *International Journal of Modern Physics B* **23**, 2994 (2009). 18th International Conference on High Magnetic Fields in Semiconductor Physics and Nanotechnology, Sao Pedro, BRAZIL, AUG 03-08, 2008.
- [123] A. Wyszolek, R. Stepniewski, K. Wardak, J. Baranowski, M. Potemski, E. Tymicki and K. Graszka. *1.4 eV - luminescence band in 6h-SiC: symmetry of the associated defect*. *International Journal of Modern Physics B* **23**, 3019 (2009). 18th International Conference on High Magnetic Fields in Semiconductor Physics and Nanotechnology, Sao Pedro, BRAZIL, AUG 03-08, 2008.
- [124] S. Yoshii, K. Ohoyama, K. Kurosawa, H. Nojiri, M. Matsuda, P. Frings, F. Duc, B. Vignolle, G. L. J. A. Rikken, L. P. Regnault, S. Michimura and F. Iga. *Neutron diffraction study on the multiple magnetization plateaus in TbB₄ under pulsed high magnetic field*. *Physical Review Letters* **103**, 077203 (2009).
- [125] X. Zhang, Y. Ma, D. Wang, Z. Gao, L. Wang, Y. Qi, S. Awaji, K. Watanabe and E. Mossang. *Phthalocyanine doping to improve critical current densities in MgB₂ tapes*. *Superconductor Science and Technology* **22**, 045019 (2009).
- [126] A. Zorko, S. Nellutla, J. van Tol, L. C. Brunel, F. Bert, F. Duc, J.-C. Trombe and P. Mendels. *Electron spin resonance investigation of the spin-1/2 kagomé antiferromagnet ZnCu₃(OH)₆Cl₂*. *Journal of Physics : Conference Series* **145**, 012014 (2009).