

List of publications: Prof. Vitalii Dugaev

Abstracts of international conferences

1. V.K. Dugaev, V.I. Litvinov, K.D. Tovstyuk
Possible mechanism of ferromagnetic ordering in systems with electron-hole coupling.
International Conference on Magnetism "ICM 79", München, September 1979.
2. V.I. Litvinov, V.K. Dugaev.
Complex order parameter at the excitonic phase transition: the new mechanism of ferromagnetism.
16th International Conference on Low Temperature Physics "LT-16", Los Angeles, USA, August 19 – 25, 1981.
3. V.K. Dugaev, Tovstyuk K.D.
Magnetic ordering and spin-glass state of the Ising model with random field and random exchange interaction.
International Conference on Magnetism "ICM 82", Kyoto, Japan, 6 – 10 September 1982.
4. V.K. Dugaev.
Magnetic impurity interaction in semimagnetic semiconductors with a band-level hybridization.
8th General Conference of Condensed Matter Division, Budapest, Hungary, April 6 – 9, 1988.
5. V.K. Dugaev, V.I. Litvinov
Magnetic ion interaction and ordering in band-inverted heterojunctions.
5th International Conference on the Physics of Electro-Optic Microstructures and Microdevices, Heraklion, Greece, 30 July – 3 August 1990.
6. V.K. Dugaev, V.I. Litvinov, O.A. Mironov, P.P. Petrov, O.N. Nashchekina, M. Oszwałdowski
Energy spectrum in quantum dots of lead and tin chalcogenides semiconducting compounds.
XXI International School-Conference on Physics of Semiconducting Compounds "Jaszowiec 92",
Ustroń-Jaszowiec, Poland, May 25 – 30, 1992.
7. V.K. Dugaev, V.I. Litvinov, P.P. Petrov, O.A. Mironov, M. Oszwałdowski
Energy spectrum in quantum dots of IV-VI narrow-gap semiconductors.
7th International Conference on Narrow-Gap Semiconductors,
Southampton, UK, July 19 – 23, 1992.
8. V.K. Dugaev.
Fractional quantum Hall effect in disordered systems with gauge fields.
Ukrainian-French Symposium "Condensed Matter: Science and Industry",
Lviv, Ukraine, 22 – 28 February 1993.
9. V.K. Dugaev, Litvinov V.I., Oszwałdowski M.
Indirect exchange in band-inverted heterojunctions of IV-VI semimagnetic compounds.
XXII International School-Conference on Physics of Semiconducting Compounds "Jaszowiec 93",
Ustroń-Jaszowiec, Poland, 22 – 28 May 1993.
10. V.K. Dugaev, Litvinov V.I., Petrov P.P.
Energy spectrum particularities and transport properties of IV-VI semiconductor quantum wells.
XXIII International School-Conference on Physics of Semiconductor Compounds "Jaszowiec 94",
Ustroń-Jaszowiec, Poland, 30 May – 3 June 1994.
11. V.I. Litvinov, V.K. Dugaev, M. Oszwałdowski.
Deformation potentials in IV-VI quantum wells.
XXIII International School-Conference on Physics of Semiconductor Compounds "Jaszowiec 94",
Ustroń-Jaszowiec, Poland, 30 May – 3 June 1994.
12. V.K. Dugaev, V.I. Litvinov, P.P. Petrov.
Magnetic interactions in quantum wells on IV-VI semiconductors.
1st International Conference on Materials Science of Chalcogenides and Semiconductors with a Structure of Diamond,
Chernivtsi, Ukraine, October 1994.
13. V.I. Litvinov, V.L. Volkov, M. Oszwałdowski, V.K. Dugaev.
Deformation potentials in narrow-gap quantum wells.
1st International School-Conference on Physical Problems in Materials Science of Semiconductors,
Chernivtsi, Ukraine, October 1995.
14. V.K. Dugaev, V.I. Litvinov, P.P. Petrov.
Transport properties of metallic structures with nonideal interfaces.
1st International School-Conference on Physical Problems in Materials Science of Semiconductors,
Chernivtsi, Ukraine, October 1995.

15. V.K. Dugaev, V.I. Litvinov, P.P. Petrov.
Magnetic interactions in IV-VI semiconductor quantum wells.
European Workshop on II-VI Semiconductors. International Workshop on Semimagnetic Semiconductors, Linz, Austria, September 1994.
16. V.K. Dugaev.
Mixed valence states in IV-VI semiconductors with rare-earth impurities.
2nd International School-Conference on Physical Problems in Materials Science of Semiconductors, Chernivtsi, Ukraine, September 8 – 10, 1997.
17. L. Kowalczyk, J. Sadowski, R.R. Gałazka, A. Stachow-Wójcik, A.Yu. Sipatov, V.V. Volobuev, V.A. Smirnov, V.K. Dugaev.
A photoluminescence study in PbS-EuS superlattices.
XXVII International School-Conference on Physics of Semiconducting Compounds "Jaszowiec 98", Ustroń-Jaszowiec, Poland, 7 – 12 June 1998.
18. V.K. Dugaev, V.I. Litvinov, W. Dobrowolski, T. Story.
Interaction between magnetic layers in structures with narrow-gap IV-VI semiconductors.
European Conference "Physics of Magnetism 99", Poznan, Poland, 21 – 25 June 1999.
19. M. Oszwaldowski, T. Berus, V.K. Dugaev.
Phase relaxation time in polycrystalline InSb films heavily doped with Pb.
International Conference on Disorder and Interaction in Transport Phenomena 'Localisation 99', Hamburg, Germany, July 29 – August 3, 1999.
20. V.F. Mitin, J. McFarland, G. Ihas, V.K. Dugaev.
Ge film thermometers at ultralow temperatures in high magnetic fields.
22nd International Conference on Low Temperature Physics "LT-22". Helsinki, Finland, 4 – 11 August 1999.
21. I. Stolpe, N. Puhmann, O. Portugall, M. von Ortenberg, W. Dobrowolski, A.Yu. Sipatov, V.K. Dugaev.
High field magnetospectroscopy of EuS/PbS multiquantum wells.
9th International Conference on Narrow Gap Semiconductors, Berlin, Germany, September 26 – October 1, 1999.
22. I. Kuryliszyn, M. Arcyszewska, M.M. Abdel Aziz, W. Dobrowolski, E.I. Slynko, V.E. Slynko, V.K. Dugaev.
In quest of Mn-Eu interaction in IV-VI mixed crystals.
9th International Conference on Narrow Gap Semiconductors, Berlin, Germany, September 26 – October 1, 1999.
23. V.K. Dugaev
Diffusion of intercalated ions in layered semiconductors
3rd International School-Conference on Physical Problems in Materials Science of Semiconductors, Chernivtsi, Ukraine, 7 – 11 September 1999 (*invited talk*).
24. V.K. Dugaev, M. Oszwaldowski
Quantum corrections to conductivity due to electron-electron interaction in semiconductors with weak screening.
3rd International School-Conference on Physical Problems in Materials Science of Semiconductors, Chernivtsi, Ukraine, 7 – 11 September 1999.
25. I. Kuryliszyn, M. Arcyszewska, W. Dobrowolski, V. Domukhowski, E.I. Slynko, V.E. Slynko, V.K. Dugaev.
Mn-Eu interaction in IV-VI mixed crystals.
XXIX International School-Conference on Physics of Semiconducting Compounds "Jaszowiec 2000", Jaszowiec, Poland, June 2 – 9, 2000.
26. V.K. Dugaev, V.I. Litvinov, W. Dobrowolski.
Interlayer magnetic coupling in IV-VI semiconductor quantum well.
Symposium on Spin Electronics "SSE 2000", Halle, Germany, July 3 – 6, 2000.
27. V.K. Dugaev, J. Barnaś.
Localization and interaction effects in magnetic layered structures.
Symposium on Spin Electronics "SSE 2000", Halle, Germany, July 3 – 6, 2000.
28. V.K. Dugaev, J. Barnaś.
Electron-electron interaction effects in spin quantum wells.
International Conference on the Physics and Application of Spin-Related Phenomena in Semiconductors "PASPS 2000", Sendai, Japan, 13 – 15 September 2000.
29. V.K. Dugaev, J. Barnaś. Quantum corrections to conductivity in magnetic quantum wells.
6th International School of Theoretical Physics "SSPCM 2000", Myczkowce, Poland, 31 August – 6 September 2000 (*invited lecture*).

30. V.K. Dugaev, P. Bruno, J. Barnaś.
Localization corrections in ferromagnets with spin-orbit interactions.
65. Physikertagung und Frühjahrstagung des Arbeitskreises Festkörperphysik bei der Deutsche Physikalische Gesellschaft, Hamburg, Deutschland, 26 – 30 März 2001.
31. V.K. Dugaev, P. Bruno, J. Barnaś.
Localization corrections to charge and spin conductivity in ferromagnetic layered structures.
4th International Symposium on Metallic Multilayers "MML 2001",
Aachen, Germany, June 24 – 29, 2001.
32. V.K. Dugaev, A. Crépieux, P. Bruno.
Weak localization corrections to the anomalous Hall effect.
4th International Symposium on Metallic Multilayers "MML 2001",
Aachen, Germany, June 24 – 29, 2001.
33. V.K. Dugaev, J. Barnaś.
Large enhancement of the interaction coupling in magnetic layered structures.
14th International Conference on the Electronic Properties of Two-Dimensional Systems "EP2DS-14",
Prague, Czech Republic, July 30 – August 3, 2001.
34. V.K. Dugaev, P. Bruno, J. Barnaś.
Localization effects in magnetic structures with spin-orbit interaction.
1st Joint European Magnetic Symposia,
Grenoble, France, August 28 – September 1, 2001.
35. A. Crépieux, V.K. Dugaev, P. Bruno.
Anomalous Hall effect and weak localization corrections in a ferromagnet.
1st Joint European Magnetic Symposia,
Grenoble, France, August 28 – September 1, 2001.
36. V.K. Dugaev, Yu. Vygranenko, M. Vieira, V.I. Litvinov, J. Barnaś.
Magnetically controlled photovoltaic diode structure.
2002 Materials Research Society Spring Meeting,
San Francisco, USA, April 1 – 5, 2002.
37. V.F. Mitin, V.V. Kholevchuk, V.K. Dugaev, M. Vieira.
Low temperature properties of compensated Ge films used for cryogenic thermometers.
2002 Materials Research Society Spring Meeting,
San Francisco, USA, April 1 – 5, 2002.
38. V.K. Dugaev, A.H. Slobodsky, J. Barnaś, V.I. Litvinov, W. Dobrowolski, M. Vieira.
Ferromagnetism in diluted magnetic semiconductors: effect of disorder.
19th General Conference of the Condensed Matter Division of the European Physical Society,
Brighton, UK, April 7 – 11, 2002.
39. V.K. Dugaev, J. Barnaś, A. Łusakowski, L.A. Turski.
Accumulation of spin and charge at domain walls in ferromagnets.
19th General Conference of the Condensed Matter Division of the European Physical Society,
Brighton, UK, April 7 – 11, 2002.
40. V.K. Dugaev, P. Bruno, J. Barnaś.
Spin conductivity and spin diffusion in magnetic systems.
Gordon Research Conference on Magnetic Nanostructures,
Il Ciocco, Italy, May 12 – 17, 2002.
41. V.K. Dugaev, V.I. Litvinov, J. Barnaś, A.H. Slobodsky, W. Dobrowolski, M. Vieira.
Ferromagnetic phase transition in diluted magnetic semiconductors: role of disorder and magnetic interactions at low carrier density.
XXXI International School on the Physics of Semiconducting Compounds "Jaszowiec 2002",
Ustroń-Jaszowiec, June 7 – 14, 2002.
42. V.K. Dugaev, G.G. Ihas, C. McKenney, V.F. Mitin, M. Vieira.
Characterization and modeling of Ge film thermometers for low temperature measurements.
1st IEEE International Conference on Sensors "IEEE Sensors 2002",
Orlando, Florida, USA, June 12 – 14, 2002.
43. V.K. Dugaev, Yu. Vygranenko, M. Vieira, V.I. Litvinov, J. Barnaś.
Modeling of magnetically controlled Si-based optoelectronic devices.
2002 European Materials Research Society Spring Meeting,
Strasbourg, France, June 18 – 21, 2002.
44. J. Barnaś, V.K. Dugaev, J. Martinek, W. Rudziński, R. Świrkowicz, I. Weymann, M. Wilczyński.
Spin related phenomena in transport properties of magnetic mesoscopic systems.

- European Conference "*Physics of Magnetism 2002*",
Poznań, Poland, July 1 – 5, 2002 (*invited talk*).
45. V.K. Dugaev, V.I. Litvinov, J. Barnaś, A.H. Slobodskyy, W. Dobrowolski, M. Vieira.
Ferromagnetism in diluted magnetic semiconductors at low carrier density.
European Conference "*Physics of Magnetism 2002*",
Poznań, Poland, July 1 – 5, 2002.
 46. V.K. Dugaev, J. Barnaś, A. Lusakowski, L.A. Turski
Accumulation of spin and charge and transport properties of ferromagnets with domain walls.
European Conference "*Physics of Magnetism 2002*",
Poznań, Poland, July 1 – 5, 2002.
 47. V.K. Dugaev, V.I. Litvinov, J. Barnaś, A.H. Slobodskyy, W. Dobrowolski, M. Vieira.
New mechanism of magnetic interactions and ferromagnetism of diluted magnetic semiconductors.
2nd International Conference on Physics and Application of Spin Related Phenomena in Semiconductors "*PASPS 2002*",
Würzburg, Germany, July 23 – 26, 2002.
 48. V.K. Dugaev, J. Barnaś, A. Lusakowski, L.A. Turski
Electrons in magnetic structures with domain walls: charge and spin accumulation and the transport properties.
2nd International Conference on Physics and Application of Spin Related Phenomena in Semiconductors "*PASPS 2002*",
Würzburg, Germany, July 23 – 26, 2002.
 49. J. Barnaś, S. Krompiewski, H.W. Kunert, J. Martinek, V.K. Dugaev.
Spin-valve effect in layered structures of ferromagnetic/nonferromagnetic semiconductors.
2nd International Conference on Physics and Application of Spin related Phenomena in Semiconductors "*PASPS 2002*",
Würzburg, Germany, July 23 – 26, 2002.
 50. K. Racka, I. Kuryliszyn, M. Arciszewska, W. Dobrowolski, J.-M. Broto, M. Goiran, O. Portugall, H. Rakoto, B. Raquet,
V.K. Dugaev, E.I. Slynko, V.E. Slynko.
Anomalous Hall effect in $\text{Sn}_{1-x-y}\text{Mn}_x\text{Eu}_y\text{Te}$ mixed crystals.
2nd International Conference on Physics and Application of Spin related Phenomena in Semiconductors "*PASPS 2002*",
Würzburg, Germany, July 23 – 26, 2002.
 51. V.K. Dugaev, V.I. Litvinov, J. Barnaś, A.H. Slobodskyy, W. Dobrowolski, M. Vieira.
Ferromagnetism in diluted magnetic semiconductors.
26th International Conference on the Physics of Semiconductors,
Edinburgh, UK, July 29 – August 2, 2002.
 52. V.K. Dugaev, J. Barnaś.
Static, dynamic, and kinetic properties of domain walls in ferromagnets.
7th International School of Theoretical Physics "*SSPCM 2002*",
Myczkowce, Poland, September 11 – 18, 2002 (*invited lecture*).
 53. N.S. Boltovets, V.K. Dugaev, P.C. McDonald, V.F. Mitin, F. Pavese, P.V. Sorokin, E.F. Venger.
New generation of resistance thermometers based on Ge films on GaAs substrates.
8th Symposium on Temperature: its Measurement and Control in Science and Industry,
Chicago, USA, October 21 – 24, 2002.
 54. V.K. Dugaev, M. Vieira, V.I. Litvinov, J. Barnaś.
Theory of ferromagnetic transition in magnetically doped semiconductors.
2002 Materials Research Society Fall Meeting,
Boston, USA, December 2 – 6, 2002.
 55. V.K. Dugaev, J. Barnaś, J. Berakdar.
Electrons in ferromagnets with domain walls.
International Workshop on Strongly Correlated Electrons in New Materials "*SCENM02*",
Loughborough, UK, December 14 – 17, 2002 (*invited talk*).
 56. V.K. Dugaev, J. Barnaś, M. Vieira.
Electric current control of magnetization in magnetic nanostructures.
2003 Materials Research Society Spring Meeting,
San Francisco, USA, April 21 – 25, 2003.
 57. G.G. Ihas, C.M. McKenney, V.F. Mitin, V.K. Dugaev.
Characterization of Ge thin film thermometers.
American Physical Society March Meeting 2003,
Austin, Texas, USA, March 3 – 7, 2003.
 58. V.K. Dugaev, J. Berakdar, J. Barnaś.
Scattering of electrons from domain walls in ferromagnets.
Frühjahrstagung des Arbeitskreises Festkörperphysik bei der Deutsche Physikalische Gesellschaft,
Dresden, Deutschland, 24 – 28 März, 2003.

59. V.K. Dugaev, P. Bruno, M. Taillefumier.
Topological Hall effect induced by Berry phase.
Laboratoire Européen Associé (LEA) Meeting,
Grenoble, France, May 15 – 16, 2003 (*invited talk*).
60. J. Barnaś, R. Świrkowicz, J. Martinek, M. Wilczyński, V.K. Dugaev.
Spin polarized transport through quantum dots: Coulomb blockade and Kondo effect.
XXXII International School on the Physics of Semiconducting Compounds "Jaszowiec 2003",
Ustroń-Jaszowiec, Poland, May 30 – June 6, 2003 (*invited lecture*).
61. V.K. Dugaev, V.I. Ivanov, J. Barnaś, P.M. Gorley.
Spin relaxation time in symmetric quantum wells of III-V semiconductors.
XXXII International School on the Physics of Semiconducting Compounds "Jaszowiec 2003",
Ustroń-Jaszowiec, Poland, May 30 – June 6, 2003.
62. V.F. Mitin, V.K. Dugaev, G.G. Ihas, C. McKenney, M. Vieira.
Giant magnetic field effect on Germanium film electrical conductance and its use for weak magnetic field detection at ultralow temperatures.
2003 European Materials Research Society Spring Meeting,
Strasbourg, France, June 10 – 13, 2003.
63. V.K. Dugaev, J. Barnaś, J. Berakdar.
Magnetic switching by electric current in magnetic nanostructures.
International Conference on Magnetism "ICM 2003",
Rome, Italy, July 27 – August 1, 2003.
64. R. Świrkowicz, J. Barnaś, M. Wilczyński, W. Rudziński, V.K. Dugaev.
Spin diode devices based on quantum dots.
International Conference on Magnetism "ICM 2003",
Rome, Italy, July 27 – August 1, 2003.
65. V.K. Dugaev, J. Barnaś, J. Berakdar.
Spin-dependent scattering from magnetic nanoconstrictions in a magnetic quantum wire.
XXIII International Conference on Photonic, Electronic, and Atomic Collisions "ICPEAC 2003",
Stockholm, Sweden, July 23 – 29, 2003.
66. V.K. Dugaev, J. Berakdar, J. Barnaś.
Magnetoresistance of a sharp domain wall in magnetic nanojunctions.
International Conference and School on Semiconductor Spintronics and Information Technology "Spintech II",
Brugge, Belgium, August 4 – 8, 2003.
67. J. Barnaś, J. Martinek, R. Świrkowicz, M. Wilczyński, V.K. Dugaev.
Spin polarized transport through quantum dots: Coulomb blockade and Kondo effect.
International Conference and School on Semiconductor Spintronics and Information Technology "Spintech II",
Brugge, Belgium, August 4 – 8, 2003.
68. V.K. Dugaev, M. Taillefumier, P. Bruno.
Topological Hall effect in magnetically ordered systems with defects.
International Conference and School on Semiconductor Spintronics and Information Technology "Spintech II",
Brugge, Belgium, August 4 – 8, 2003.
69. V.K. Dugaev, M. Taillefumier, P. Bruno.
Topological Hall effect induced by Berry phase in two-dimensional magnetic structures.
Euroconference on Spin and Charge Transport in Nanostructures,
Braga, Portugal, September 1 – 5, 2003.
70. V.F. Mitin, G.G. Ihas, C. McKenney, V.K. Dugaev, M. Vieira.
Resistance thermometers based on Ge films on GaAs substrates: low-temperature conduction and magnetoresistance mechanism.
17th European Conference on Solid-State Transducers "Eurosensors XVII",
Guimarães, Portugal, September 21 – 24, 2003.
71. V.K. Dugaev, V.F. Mitin.
Modeling of characteristics for low-temperature Ge-film sensors.
2nd International Seminar and Workshop on Low Temperature Thermometry,
Wrocław, Poland, October 6 – 7, 2003.
72. M. Taillefumier, V.K. Dugaev, P. Bruno.
Computation of the Berry phase in two-dimensional periodic magnetic structures.
RTN Annual Workshop "Computational Magnetoelectronics",
Halle, Germany, October 9 – 11, 2003.

73. V.K. Dugaev, J. Berakdar, J. Barnaś.
Magnetoresistance of magnetic nanojunctions with domain walls.
RTN Annual Workshop "*Computational Magnetoelectronics*",
Halle, Germany, October 9 – 11, 2003.
74. V.K. Dugaev, J. Barnaś, J. Berakdar.
Electron-electron interaction in the magnetic nanowire with domain wall.
International Conference on Solid State Quantum Information Processing,
Amsterdam, Netherlands, December 15 – 18, 2003.
75. V.K. Dugaev, M. Taillefumier, P. Bruno.
Spin and Hall currents induced by Berry phase.
International Conference on Solid State Quantum Information Processing,
Amsterdam, Netherlands, December 15 – 18, 2003.
76. V.K. Dugaev, J. Barnaś, J. Berakdar.
Spin-dependent scattering from atomic junctions in a nanowire.
International Workshop on Atomic Physics,
Dresden, Germany, December 2 – 6, 2003 (*invited talk*).
77. M. Taillefumier, V.K. Dugaev, P. Bruno.
Anomalous Hall effect and Berry phase in ferromagnets.
Frühjahrstagung des Arbeitskreises Festkörperphysik bei der Deutsche Physikalische Gesellschaft,
Regensburg, Deutschland, 8 – 12 März, 2004.
78. V.K. Dugaev, J. Berakdar, J. Barnaś, W. Dobrowolski, V.F. Mitin.
Magnetoresistance due to domain walls in semiconducting magnetic nanostructures.
2004 European Materials Research Society Spring Meeting,
Strasbourg, France, May 24 – 28, 2004.
79. M. Taillefumier, V.K. Dugaev, P. Bruno.
Effect Hall topologique et phase de Berry dans les structures nanomagnétiques.
9ème Colloque Louis Néel "*Couches Minces et Nanostructures Magnétiques*",
Autrans, France, 17 – 19 mars 2004.
80. M. Taillefumier, V.K. Dugaev, P. Bruno.
Anomalous Hall effect in ferromagnets.
Conference on Complex Systems,
Grenoble, France, July 22 - 23, 2004.
81. V.K. Dugaev, M. Taillefumier, P. Bruno.
Topological Hall effect and Berry phase in magnetic nanostructures.
Joint European Magnetic Symposium "*JEMS 04*",
Dresden, Germany, September 5 – 10, 2004.
82. M. Taillefumier, V.K. Dugaev, P. Bruno.
Electron energy spectrum and persistent currents in a two-dimensional periodic magnetic field.
Joint European Magnetic Symposium "*JEMS 04*",
Dresden, Germany, September 5 – 10, 2004.
83. J. Barnaś, R. Świrkowicz, I. Weimann, W. Rudziński, M. Wilczyński, V.K. Dugaev.
Quantum dots attached to ferromagnetic leads: possibility of new spintronic devices.
Joint European Magnetic Symposium "*JEMS 04*",
Dresden, Germany, September 5 – 10, 2004.
84. V.F. Mitin, P.C. McDonald, F. Pavese, N.S. Boltovets, V.V. Kholevchuk, I.Yu. Nemish, V.V. Basanets, V.K. Dugaev, P.V. Sorokin, E.F. Venger, E.V. Mitin.
New temperature and magnetic field sensors for cryogenic applications developed under a European Project.
20th International Cryogenic Engineering Conference and Exhibition "*ICEC20*",
Beijing, China, May 11 – 14, 2004.
85. P. Bruno, V.K. Dugaev, M. Taillefumier.
Topological Hall effect and Berry phase in magnetic nanostructures.
International Conference on Nanospintronics Design and Realization "*ICNDR 2004*",
Kyoto, Japan, May 24 – 28, 2004 (*invited talk*).
86. B. Brodowska, W. Dobrowolski, O. Portugall, M. Goiran, J.K. Furdyna, T. Woitowicz, G. Cywinski, V.K. Dugaev, B. Wilkowska.
Anomalous Hall effect in semamgnetic semiconductors.
XXXIII International School on Physics of Semiconducting Compounds "*Jaszowiec 2004*",
Ustroń-Jaszowiec, Poland, May 28 – June 4, 2004.

87. V.K. Dugaev.
Spintronics in semiconductor based magnetic nanostructures (theory).
XI International Summer School Nicolás Cabrera "Frontiers in Science and Technology: Magnetic Nanostructures",
Madrid, Spain, September 13 – 17, 2004 (*invited lecture*).
88. V.K. Dugaev, P. Bruno, M. Taillefumier.
Topological Hall effect in magnetic nanostructures.
XI International Summer School Nicolás Cabrera "Frontiers in Science and Technology: Magnetic Nanostructures",
Madrid, Spain, September 13 – 17, 2004.
89. V.K. Dugaev, J. Berakdar, J. Barnaś, V.I. Ivanov, W. Dobrowolski, V.F. Mitin.
Conductance and giant magneto-resistance in magnetic tunneling nanostructures.
2nd Ukrainian Scientific Conference on Physics of Semiconductors,
Chernivtsi, Ukraine, September 20 – 24, 2004.
90. V.L. Volkov, V.K. Dugaev.
Theory and modeling of the crystal growth of semiconductors under microgravity conditions.
2nd Ukrainian Scientific Conference on Physics of Semiconductors,
Chernivtsi, Ukraine, September 20 – 24, 2004.
91. P.N. Gorley, P.P. Horley, O.M. Pityk, V.K. Dugaev, W. Dobrowolski.
Influence of long-time relaxation of magnetic ions subsystem on spin orientation of conductivity electrons.
2nd Ukrainian Scientific Conference on Physics of Semiconductors,
Chernivtsi, Ukraine, September 20 – 24, 2004.
92. V.K. Dugaev, V.F. Mitin, J. McFarland, G.G. Ihas.
Negative magnetoresistance in Ge films at ultralow temperatures.
International Workshop on Sensors and Materials for Cryogenic Applications: Properties, Technology and Metrology,
Kiev, Ukraine, September 27 – 29, 2004 (*invited talk*).
93. V.K. Dugaev, J. Barnaś, J. Berakdar, V.F. Mitin.
Magnetoresistance of semiconductor magnetic nanostructures.
International Workshop on Sensors and Materials for Cryogenic Applications: Properties, Technology and Metrology,
Kiev, Ukraine, September 27 – 29, 2004.
94. M. Taillefumier, V.K. Dugaev, P. Bruno.
Electron energy spectrum in two-dimensional periodic magnetic field.
Laboratoire Européen Associé (LEA) Meeting,
Halle, Germany, September 30 – October 1, 2004.
95. V.K. Dugaev, M. Taillefumier, P. Bruno, B. Canals, C. Lacroix.
Intrinsic mechanism of anomalous Hall effect.
Laboratoire Européen Associé (LEA) Meeting,
Halle, Germany, September 30 – October 1, 2004.
96. V.K. Dugaev, J. Barnaś, J. Berakdar.
Scattering from domain walls in a ferromagnetic quantum wire.
Laboratoire Européen Associé (LEA) Meeting,
Halle, Germany, September 30 – October 1, 2004.
97. M. Taillefumier, V.K. Dugaev, P. Bruno.
Topological Hall effect in ferromagnets.
Laboratoire Européen Associé (LEA) Meeting,
Halle, Germany, September 30 – October 1, 2004.
98. V.K. Dugaev, J. Berakdar, J. Barnaś, W. Dobrowolski, V.F. Mitin, M. Vieira.
Aspects of spin-dependent scattering in magnetic nanoconstrictions.
69. Frühjahrstagung der Deutsche Physikalische Gesellschaft "Physik seit Einstein",
Berlin, Deutschland, 4. – 9. März, 2005.
99. V.K. Dugaev, P. Bruno, M. Taillefumier.
Anomalous Hall effect in disordered magnetic nanostructures.
Workshop "Interface Disorder in Nanosystems",
Leiden, Netherlands, June 20 – 24, 2005 (*invited lecture*).
100. V.K. Dugaev, J. Berakdar, J. Barnaś, M. Vieira.
Resonant transmission through a double domain wall in magnetic nanowires.
2005 E-MRS meeting. Symposium B "Spintronics",
Strasbourg, France, May 31 – June 3, 2005.
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