

First Name: Igor
Last Name: Kozlov
(Dr. Igor V. Kozlov, an alternative transliteration: Ihor V. Kozlov)
Date of Birth: 13.02.1977 (Kharkov, Ukraine)
Citizenship: Ukrainian
Languages: Russian (native), Ukrainian (native), English
e-mail: kozlov@ilt.kharkov.ua



after 2002: Junior Researcher, B.Verkin Institute for Low Temperature Physics and Engineering of the National Academy of Sciences, Ukraine, Department of Transport Properties of Conducting and Superconducting Systems

1999-2002: Post-graduate student in theoretical physics, B.Verkin Institute for Low Temperature Physics and Engineering of the National Academy of Sciences, thesis topic: “Quantum oscillation phenomena in layered organic conductors in a strong magnetic field”

1994-1999: Student of Department of Physics, V.N. Karazin Kharkov National University, Ukraine, Master degree in Theoretical Physics, Diploma with honours, thesis topic: “High-frequency quantum oscillation effects in layered conductors in the magnetic field”.

Teaching experiences: special course: “Quantum magneto-transport in Layered Conductors”, Universidad Peruana Cayetano Heredia, Departamento de Ciencias Exactas, Lima, Peru (2013)

Research interests:

Dirac equation in condensed matter physics, chiral fermions;
quantum oscillations of kinetic and thermodynamic characteristics of degenerated conductors;
thermoelectric phenomena in conductors

Selected publications:

Kozlov I.V., Kolesnichenko Yu.A. Friedel oscillations in 2D electron gas from spin-orbit interaction in a parallel magnetic field // Low Temperature Physics 44, 1299-1308 (2018); <https://doi.org/10.1063/1.5078625>

Kozlov I.V., Kolesnichenko Yu.A. Anisotropic Friedel oscillations in a two-dimensional electron gas with a Rashba–Dresselhaus spin–orbit interaction // Low Temperature Physics 43, No.7, (2017); <https://doi.org/10.1063/1.4995636>

Medina Pantoja J.C., Sotelo-Campos J., Kozlov I.V. Quantum high-frequency conductivity oscillations in graphene multilayers and nodal semimetals in a tilted magnetic field // EPJ B, 90, № 6, 109 (2017); <https://doi.org/10.1140/epjb/e2017-80194-4>

Kozlov I.V., Medina Pantoja J.C. High-frequency conductivity of multilayer graphene and graphite under the conditions of quantum cyclone resonance // Low. Temp. Phys., 40, No. 7, 547 (2014); <https://doi.org/10.1063/1.4884523>

O.V. Kirichenko and I.V. Kozlov, Quantum oscillations of the impedance of layered conductors with elastic scattering of electrons by short-range impurity centres // Low Temp. Phys. 36, 623 (2010); <https://doi.org/10.1063/1.3481213>

O.V. Kirichenko, I.V. Kozlov, D. Krstovska, V.G. Peschansky, Quantum oscillations of thermomagnetic coefficients of layered conductors in a strong magnetic field // Low. Temp. Phys., 34, №7, 538-542 (2008); <https://doi.org/10.1063/1.2957285>