



Ilgar Mirzoiev

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Conducting and Superconducting
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Research interests

Transport properties of low dimensional conducting systems at low temperatures and high magnetic fields.

Quantum effects in nanosystems based on: silicon, carbon and bismuth.

Technical skills

- Working with ^4He evaporation cryostats (down to $T \sim 1.5$ K).
- Working with high magnetic fields up to 9 T.
- Working with vacuum equipment.
- Measurement hardware programming.
- Creating of software for experimental data processing.

Selected publications:

- *Ovsienko I. V., Len T. A., Matsuy L. Yu., Prylutsky Yu. I., Berkutov I. B., Andrievskii V.V., Komnik Yu. F., **Mirzoiev I.G.**, Grechnev G. E., Kolesnichenko Yu. A., Hayn R. and Scharff P.* Magnetoresistance and electrical resistivity of N-doped multi-walled carbon nanotubes at low temperatures. *Physica Status Solidi B* 252, 1402 (2015).
- *Tkachuk V. Ya., Ovsienko I. V., Matzui L. Yu., Len T. A., Prylutsky Yu. I., Brusylovets O. A., Berkutov I. B., **Mirzoiev I. G.**, Prokopov O. I.* Asymmetric magnetoresistance in the graphite intercalation compounds with cobalt. *Molecular Crystals and Liquid Crystals* 639, 137 (2016).
- *Prokopov O. I., Ovsienko I. V., Matzui L. Yu., Len T. A., Naumova D. D., Berkutov I. B., **Mirzoiev I. G.**, Normand F. Le.* Weak localization and interaction effects in acceptor graphite intercalation compounds. *Low Temperature Physics* 43, 884 (2017).
- *Ovsienko I., Matzui L., Berkutov I., **Mirzoiev I.**, Len T., Prylutsky Y., Prokopov O., Ritter U.* Magnetoresistance of graphite intercalated with cobalt. Springer, *Journal of Materials Science* 53, 716 (2018).