

Workshop

in honour of Grigory Volovik's 80th anniversary



September 7, 2026

PROGRAM

Time slots are indicated in Moscow local time (GMT+3)

11:00 - 11:05 Opening

11:05 - 11:30 Yuri Obukhov *Variations on the theme of fermion spin geometry*

11:30 - 11:55 Dmitrii Diakonov *Sine-Gordon solitons in hyperbolic and PP-waves space-times*

11:55 - 12:20 Alexander Melnikov *Quasiparticle interference patterns in vortex cores of type-II superconductors*

12:20 - 12:45 Vadim Geshkenbein *Spectral flow in clean SNS junctions*

12:45 - 13:10 Akira Furusaki *Euler band insulators and superfluids*

14:00 - 14:25 Pablo Esquinazi *Grigory's Idea: How a 2014 Meeting in Finland Sparked Superconductivity at Graphite Stacking Faults*

14:25 - 14:50 Vadim Ksenofontov *Possible High-Temperature Superconductivity in Graphite Intercalated with Alkaline Earth Metals*

14:50 - 15:15 Steven Bass *Emergent gauge symmetries in particle physics and cosmology*

15:15 - 15:40 Carlos Barcelo *The Harmonic Background Paradigm or why energy is always positive*

15:40 - 16:05 Mikhail Zubkov *Topological invariant responsible for the QHE in the inhomogeneous 2d systems with interactions*

17:00 - 17:25 Qaisar Shafi *Topological structures and gravitational waves*

17:25 - 17:50 Alexander Migdal *Number Theory of Hydrodynamic Turbulence*

17:50 - 18:15 Jukka I. Väyrynen *Signatures of Majorana Zero Modes in Engineered Antidot Vortices*

18:15 - 18:40 Ariel Zhitnitsky *Volovik's gluon vacuum and the cosmological constant*

18:40 - 19:05 Grigory Volovik *Gravity through the prism of condensed matter physics*

19:05 - ... Informal tributes to Grigory Volovik

Zoom link:

<https://zoom.us/j/96899364518?pwd=MzBsR2lYT0lYLTx2b1oyNU9LeWlWUT09>

Meeting ID: 968 9936 4518

Password: 250319

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