

**National Academy of Sciences of Ukraine
Department of Physics and Astronomy
Scientific Council “Physics of Soft Matter”**

**The XVIII Annual Meeting
of the Scientific Council “Physics of Soft Matter”
*Lviv, November 1-3, 2023***

Programme

November 1-2, 2023

Meeting of the Board Committee of the Scientific Council “Physics of Soft Matter”

November 3, 2023

- 10.00 Opening
- 10.10 T. Patsahan
 Fluids near the surface and in porous media
- 10.40 S. Perepelytsya
 Conformational states of polyamine molecules in aqueous DNA solutions
- 11.10 L. Bulavin, K. Chalyi, Ye. Rudnikov, A. Chalyi
 Thermodynamic anomalies of water at 42 C and neutron optics of soft matter
- 11.40 A. Baumketner
 Lattice states of the system of solid ellipses
- 12.10 Coffee break
- 12.40 V. Pergamenshchik
 Hydrodynamics of an ultra-cold bosonic gas: perturbations of the ground state, solitons and compactons
- 13.10 Yu. Plevachuk
 Metal deposited nanoparticles as “bridge materials” for lead-free solder nanocomposites
- 13.40 A. Trokhymchuk, T. Bryk, A. Huerta
 Self organization of five hydrogel particles in square box filled with water
- 14.10 O. Buluy, O. Kurochkin, A.A. Marchenko, O.L. Kapitanchuk, Ya. Yu. Lopatina, K.G. Nazarenko, A.I. Senenko, N.H Katsonis, V.G. Nazarenko, O.D. Lavrentovich
 Ferroelectric nematic liquid crystal: a new paradigm for breakthrough electrooptical applications
- 14.40 O. Pizio
 Molecular liquids and ionic solutions: From statistical mechanics modeling to experimental observations. On Special Issue of Journal Molecular Liquids in Honor of the 80th birthday of Myroslav Holovko
- 15.10 Closing, informal discussion