



# Bogolyubov Kyiv Conference "Problems of Theoretical and Mathematical Physics"

## Wednesday 25 September 2024

### Morning Session 2 - 322 (10:00-13:30)

time	[id] title	presenter
10:00	[85] On a crossover between two mechanisms of sound propagation in liquids	BRYK, Taras
10:40	[8] Quantum topological effects in magnetization dynamics: the Berry phase, the Aharonov–Casher effect and electric field control of spin waves dynamics	Prof. KRYVORUCHKO, Volodymyr
11:20	[55] Critical Behavior of Structurally Disordered Systems Magnets with Long-Range Interaction	Dr SHAPOVAL, Dmytro
11:40	[32] Thermodynamics of the kagome Heisenberg antiferromagnets	HUTAK, Taras
12:00	Coffee break	
12:30	[73] Squeezing and amplification in open quantum systems with color centers using the multilevel Janes-Cummings model	OVSANNIKOV, Roman
12:50	[60] Domains and domain boundaries structure of benzene adsorbed on graphene	TROTSKYI, Yevhenii
13:10	[78] Modeling temperature dynamics in non-uniform biological tissues under cryogenic impact	Dr SHEVCHENKO, Sergey