



# XIV Conference of Young Scientists "Problems of Theoretical Physics"

## Wednesday 17 January 2024

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

time	[id] title	presenter
10:00	[28] Application of machine learning approaches to the generation of organic compounds and prediction of their properties	Dr DRUCHOK, Maksym
10:45	[9] Revealing inaccuracies of the GFN1-xTB semi-empirical method with machine-learning toolset	TERETS, Andrii
11:05	[22] The Mutual Influence of Production Rate of Point Defects and Temperature on the Effects of Radiation-Induced Segregation in the Fe-20Cr-8Ni Alloy	SKOROKHOD, Roman
11:25	[17] Spatial coherence of compact sources with respect to X-ray phase contrast imaging formation	OVCHARENKO, Artur
11:45	BREAK	
12:05	[27] Nonlinear wave phenomena in Josephson junctions	Dr ZOLOTARYUK, Yaroslav
12:50	[14] Influence of the variable cross section on the domain wall dynamics in curved ferromagnetic nanostripes	DMYTRO KARAKUTS