

XV Conference of Young Scientists "Problems of Theoretical Physics"

Thursday 12 June 2025

Artificial Intelligence in Physics - 322 (14:00-17:00)

-Conveners: Anton Rudakovskiy

time	[id] title	presenter
14:00	[45] The interaction between physics and machine learning: attractive or repulsive?	Dr NIKOLAIENKO, Tymofii
14:40	[21] A neural network model of the dependence of the energy of biomolecules on structure and quantum-mechanical descriptors	TERETS, Andrii
15:00	[2] Galaxy Morphological Classification with Manifold Learning	TSIZH, Maksym
15:20	Coffee Break	
15:40	[5] Accelerating Relativistic Heavy-Ion Collision Modeling: Machine Learning Integration with the iHKM Framework	Dr NABOKA, Vladyslav
16:00	[12] Implementation of a methodology for crystal structure prediction using genetic algorithms integrated into the Python ASE library	SEMENIUK, Bohdan
16:20	[20] Predicting superconductors critical temperature via machine learning methods	Mr SVYNARSKYI, Ihor
16:40	[41] Broadband single-layer dielectric anti-reflective solar cell coatings	OVCHARENKO, Anton