

International School “Nuclear Theory and Astrophysical Applications”

Dubna, February 11-17, 2024

PROGRAMME

February 12, Monday

10:00 – 10:30	Opening	
10:30 – 11:30	Introduction to reactions with heavy ions	N. V. Antonenko
11:30 – 11:50	Coffee Break	
11:50 – 13:30	Introduction to nuclear models	R. V. Jolos
13:30 – 15:00	Lunch	
15:00 – 16:15	FLNR excursion	
16:15 – 18:00	Reaction of astrophysical interest	V. V. Sargsyan
18:00	Welcome party	

February 13, Tuesday

9:30 – 11:15	Energy density functional and mean-field approach	A. P. Severyukhin
11:15 – 11:35	Coffee Break	
11:35 – 13:20	Giant resonances: recent progress	V. O. Nesterenko
13:20 – 15:20	Lunch	
15:20 – 17:05	Cluster features of nuclear structure	T. M. Shneidman

February 14, Wednesday

9:30 – 11:15	Few-body problem in exotic cluster nuclei	L. V. Grigorenko
11:15 – 11:35	Coffee Break	
11:35 – 12:20	Prospects for the development of large nuclear physics facilities in the Russian Federation	L. V. Grigorenko
12:20 – 14:20	Lunch	
14:20 – 16:05	Prestellar nucleosynthesis, recombination and composition of the Universe	V. N. Kondratyev
16:05 – 16:30	Coffee Break	
16:30 – 18:15	Neutron star mergers and short gamma-ray bursts	A. V. Yudin

February 15, Thursday

9:30 – 11:15	Core-collapse supernovae and nuclear weak-interaction reactions	A. A. Dzhioev
11:15 – 11:35	Coffee Break	
11:35 – 13:20	Introduction to Interacting Boson Model	A. D. Efimov
13:20 – 15:20	Lunch	
15:20 – 17:05	Big Data & Artificial Intelligence	I. A. Mitropolsky
17:05 – 17:30	Coffee Break	
17:30 – 19:20	Participant presentations	

February 16, Friday

9:30 – 11:15	Methods of statistical physics in description of nuclear reactions	G. G. Adamian
11:15 – 11:35	Coffee Break	
11:35 – 13:20	Advances in description of induced fission	A. V. Andreev
13:20 – 15:20	Lunch	
15:20 – 17:05	Cluster approach to spontaneous fission	I. S. Rogov
18:00	Reception	