

Applied Physics Student School 2019

24 квітня

9:30-10:20	Oleg Feya	<i>MIPT</i>	Computer design of new materials
10:20-11:10	Sergiy Borisenko	<i>IFW</i>	Nematicity and superconductivity
11:10-11:30	<i>Coffee break</i>		
11:30-12:20	Alexander Yakimenko	<i>TSNUK</i>	Quantum vortices in atomic Bose-Einstein condensates
12:20-13:30	<i>Lunch</i>		
13:30-14:20	Alexander Marchenko	<i>IP</i>	What one can see on the scale of a millionth of a razor blade
14:20-15:10	Alexander Kasatkin	<i>IMP</i>	Abrikosov vortices and electrodynamics of superconductors
15:10-15:30	<i>Coffee break</i>		
15:30-18:00	Poster session		

25 квітня

9:30-10:20	Denis Sheka	<i>TSNUK</i>	Nanomagnetism: from fundamentals to skyrmionics
10:20-11:10	Volodymyr Karbivskyy	<i>IMP, KAU</i>	Scanning probe microscopy and spectroscopy of nano-structures
11:10-11:30	<i>Coffee break</i>		
11:30-12:20	Volodymyr Golub	<i>IMag</i>	Ferromagnetic resonance: application for study of magnetic shape memory alloys
12:20-13:30	<i>Lunch</i>		
13:30-14:20	Oleksiy Kolezhuk	<i>TSNUK</i>	Topological phenomena in low-dimensional quantum magnets
14:20-15:10	Vitaliy Tymchyshyn	<i>BITP</i>	Introduction to deep learning
15:10-15:30	<i>Coffee break</i>		
15:30-17:30	Lab tour		

26 квітня

9:30-10:20	Anatoliy Negriyko	<i>IP, KAU</i>	Lasers in Nobel Prizes and at the Institute of Physics
10:20-11:10	Andrew Semenov	<i>BITP, KAU</i>	Physical resources for quantum information processing
11:10-11:30	<i>Coffee break</i>		
11:30-12:20	Sergei Sharapov	<i>BITP, KAU</i>	Graphene and other Dirac materials
12:20-13:30	<i>Lunch</i>		
13:30-14:20	Volodymyr Bezguba	<i>KAU, IFW</i>	Machine learning and its applications in condensed matter physics