



PHO



# Program

MIPT

23-27 September 2024

II Russian-Chinese International School  
«Superconducting functional materials for  
advanced quantum technologies»

	09:00-10:30	10:30-11:00	11:00-12:30	12:30-14:00	14:00-15:30
<b>Monday</b> September 23	09:00-09:15 Welcome remarks Prof. Vasily STOLYAROV (MIPT) Andrei BLINOV (RSF) Prof. Alexander GOLUBOV (MIPT)	<i>Coffee Break &amp; Take Photos</i>	Prof. Wei JIANG <i>Theoretical study of flat band models and materials</i>	<i>Lunch</i>	Prof. Alexey ALADYSHKIN <i>Composing of skeletons of 2D images and analysis of SPM data</i>
	09:15-10:45 Prof. Anatolie SIDORENKO <i>Brain like artificial neural network based on superconducting elements</i>				
<b>Thursday</b> September 24	Prof. Yu ZHANG <i>Characterization and Manipulation of Intervalley Scattering in Graphene</i>	<i>Coffee Break</i>	Prof. Irina BOBKOVA <i>Proximity effect in superconductor/magnet heterostructures</i>	<i>Lunch</i>	Prof. Yangyang JU <i>Enhanced Study on the Utilization of Trace Gas Sensors for Early Disease Detection</i>
<b>Wednesday</b> September 25	Prof. Alexander MELNIKOV <i>Superconducting spintronics: interplay between superconductivity and magnetism</i>	<i>Coffee Break</i>	Prof. Peng LIU <i>Insights into Soft Matter Dynamics and Structure via Three Entropic Effects</i>	<i>Lunch</i>	Prof. Boris GORSHUNOV <i>Electrodynamic properties of superconductors: fundamentals and experimental approaches</i>
<b>Friday</b> September 27	Prof. Quanzhen ZHANG <i>Introduction to advanced science of low dimensional semiconductor materials and nanodevices</i>	<i>Coffee Break</i>	Prof. Lada YASHINA <i>Characterization of topological insulators and related materials using synchrotron radiation</i>	<i>Lunch</i>	Prof. Yuhui CHEN <i>Rare Earth-Doped Crystals for Quantum Network Applications</i>  15:30-18:00 <i>Poster Session</i>