



INSTITUTE
OF NUCLEAR
PHYSICS



KAZAKH-BRITISH
TECHNICAL
UNIVERSITY

THE PROGRAM OF THE EVENT
within the framework of the International School
"Introduction to High Energy Physics, Accelerator Technology"
October 13 - 17, 2025,
Almaty, the Republic of Kazakhstan

13-17 October 2025	
13 October (Monday)	
<i>Registration of participants</i>	09:00 - 09:30
<i>Opening ceremony</i>	09:30 - 10:00
Maratbek Gabdullin, Chairman of the Management Board of KBTU	5'
Timur Zhantikin, Deputy chairman of the Atomic Energy Agency of the Republic of Kazakhstan	5'
Sayabek Sakhiyev, Director General of INP	5'
Didar Batryshev, Vice-President of the Academy of Sciences under the President of the Republic of Kazakhstan	5'
Physics beyond the standard model with the SHiP experiment at CERN (Daniel Bick, University of Hamburg)	10:00 - 10:30
Physics beyond the standard model with the SHiP experiment at CERN (Daniel Bick, University of Hamburg)	10:30 - 11:00
<i>Coffee break</i>	11:00 - 11:30
Victor Kim (CERN Research Program)	11:30 - 12:00
Carbon nanostains: synthesis, properties and promising applications (Yerasyl Yerlanuly, KBTU)	12:00 - 12:30
Radiation-resistant materials and optoelectronic devices (Yerasyl Yerlanuly, KBTU)	12:30 - 13:00
<i>Lunch</i>	13:00 - 14:00

Practical session (CERN&ROOT, GEANT4)	14:00 - 16:00
14 October (Tuesday)	
Introduction to the Physics at the Large Hadron Collider (Victor Kim, PNPI)	10:00 – 10:30
Introduction to the Physics at the Large Hadron Collider (Victor Kim, PNPI)	10:30 - 11:00
<i>Coffee break</i>	11:00 - 11:30
Gaseous detectors (Ekaterina Kuznetcova, Uni. of Florida & PNPI) <u>online</u>	11:30 - 12:00
Straw technologies (Temur Enik, JINR) <u>online</u>	12:00 - 12:30
CAEN Educational: Advanced and compact solutions for Nuclear and Particle Physics experiments (Cristina Mattone, CAEN)	12:30 – 13:00
<i>Lunch</i>	13:00 - 14:00
Practical session (CERN&ROOT, GEANT4)	14:00 - 16:00
15 October (Wednesday)	
Anniversary of the Nuclear industry of the Republic of Kazakhstan	
16 October (Thursday)	
Probing fundamental interactions with (anti)neutrinos (Roberto Petti, Uni. of South Carolina) <u>online</u>	09:00 – 09:30
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Observational evidences for Dark Matter (Dmitry Gorbunov, INR RAS)	10:00 – 10:30
Dark Matter Models (Dmitry Gorbunov, INR RAS)	10:30 - 11:00
Top-performance gamma spectrometers and their applications in radionuclide analysis (Baltic Scientific Instruments) <u>online</u>	11:00 - 11:30
<i>Coffee break</i>	11:30 - 12:00
LHCb calorimeter upgrades (Sergey Kholodenko, CERN) <u>online</u>	12:00 - 12:30
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Transition Radiation technique (Anatoli Romaniouk, Universität Innsbruck) <u>online</u>	13:00 - 13:30
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<i>Lunch</i>	14:00 - 15:00
Practical session (CERN&ROOT, GEANT4)	15:00 - 17:00
17 October (Friday)	
The search for dark matter in accelerator experiments (Mariya Savina, JINR)	10:00 – 10:30
Distributed and high-performance computing for JINR high-energy physics projects (Sergey Shmatov, JINR)	10:30 - 11:00
Distributed and high-performance computing for JINR high-energy physics projects (Sergey Shmatov, JINR)	11:00 - 11:30
<i>Coffee break</i>	11:30 - 12:00
	12:00 - 12:30
<i>Closing ceremony</i>	12:30 - 13:00