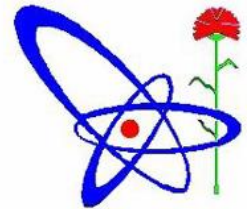


**International Associated Laboratory
"Instrumentation Developments for
Experiments at Accelerator facilities
and accelerating Techniques"**



**Ministry of Education and Science of Ukraine
National Academy of Sciences of Ukraine
National Science Center
"Kharkiv Institute of Physics and Technology"
Akhiezer Institute for Theoretical Physics
Karazin National University of Kharkov**

Winter School on High Energy Physics



29 February – 2 March, 2016 (Kharkov, Ukraine)

PROGRAM

First Day – Monday (February, 29)	
9:00-9:45	Introduction. Achille Stocchi (LAL) Strong interaction 1. Marie-Helene Schune (LAL)
9:50-10:35	Strong interaction 2. Marie-Helene Schune (LAL)
15' break	
10:50-11:35	Detectors 1. Maxim Titov (CEA/IRFU)
11:40-12:25	Weak interaction 1. Achille Stocchi (LAL)
12:25-14:00	Lunch break

14:00-14:45	Weak interaction 1. Achille Stocchi (LAL)
14:50-15.35	Seminar 1. Search for New Physics with LHCb. Marie-Helene Schune (LAL)
15' break	
15:50-16.35	Seminar 2. Search for New Physics with ATLAS & CMS. Maxim Titov (CEA/IRFU)
Second Day – Tuesday (March, 1)	
9:00-9.45	Standard Model 1. Stephane Monteil (LPC-Clermont)
9:50-10:35	Standard Model 2. Stephane Monteil (LPC-Clermont)
15' break	
10:50-11:35	Heavy flavours 1. Sergey Barsuk (LAL)
11:40-12:25	Heavy flavours 2. Sergey Barsuk (LAL)
12:25-14:00	Lunch break
14:00-14:45	Detectors 2. Sergey Barsuk (LAL)
14:50-15:35	Neutrino 1. Marie-Helene Schune (LAL)
15' break	
15:50-16:35	Seminar 3. String theory and quark-gluon plasma. Alexei Nurmagambetov (AITP NSC KIPT & KNUK)
16:40-17:25	Seminar 4. Electromagnetic processes at high energy with half-bare particles. Sergii Fomin (NSC KIPT & KNUK)
Third Day – Wednesday (March, 2)	
9:00-9:45	Higgs 1. Stephane Monteil (LPC-Clermont)
9:50-10:35	Detectors 3. Stephane Monteil (LPC-Clermont)
15' break	
10:50-11:35	Accelerators 1. Nicolas Delerue (LAL)
11:40-12:25	Accelerators 2. Nicolas Delerue (LAL)

12:25-14:00	Lunch break
14:00-14:45	Seminar 5. The Higgs boson physics from the basis to the state of the art. Taras Zagoskin (AITP NSC KIPT)
14:50-15:35	Seminar 6. Precision muon physics. Sergiy Ivashyn (AITP NSC KIPT)
15' break	
15:50-16:35	Seminar 7. Simulation of particle production in pp-collisions at the LHC. Vladimir Kotlyar (AITP NSC KIPT)

List of lectors:

Achille Stocchi - LAL, IN2P3/CNRS and Paris-Sud University, Orsay, France

Marie-Helene Schune - LAL, IN2P3/CNRS and Paris-Sud University, Orsay, France

Maxim Titov - CEA/IRFU, Saclay, France

Stephane Monteil - LPC-Clermont, IN2P3/CNRS & University Blaise Pascal

Nicolas Delerue - LAL, IN2P3/CNRS and Paris-Sud University, Orsay, France

Sergey Barsuk - LAL, IN2P3/CNRS and Paris-Sud University, Orsay, France

Alexei Nurmagambetov - AITP NSC KIPT & KNUK, Kharkiv, Ukraine

Taras Zagoskin - AITP NSC KIPT, Kharkiv, Ukraine

Sergiy Ivashyn - AITP NSC KIPT, Kharkiv, Ukraine

Vladimir Kotlyar - AITP NSC KIP, Kharkiv, Ukraine

Sergii Fomin - AITP NSC KIPT & KNUK, Kharkiv, Ukraine

